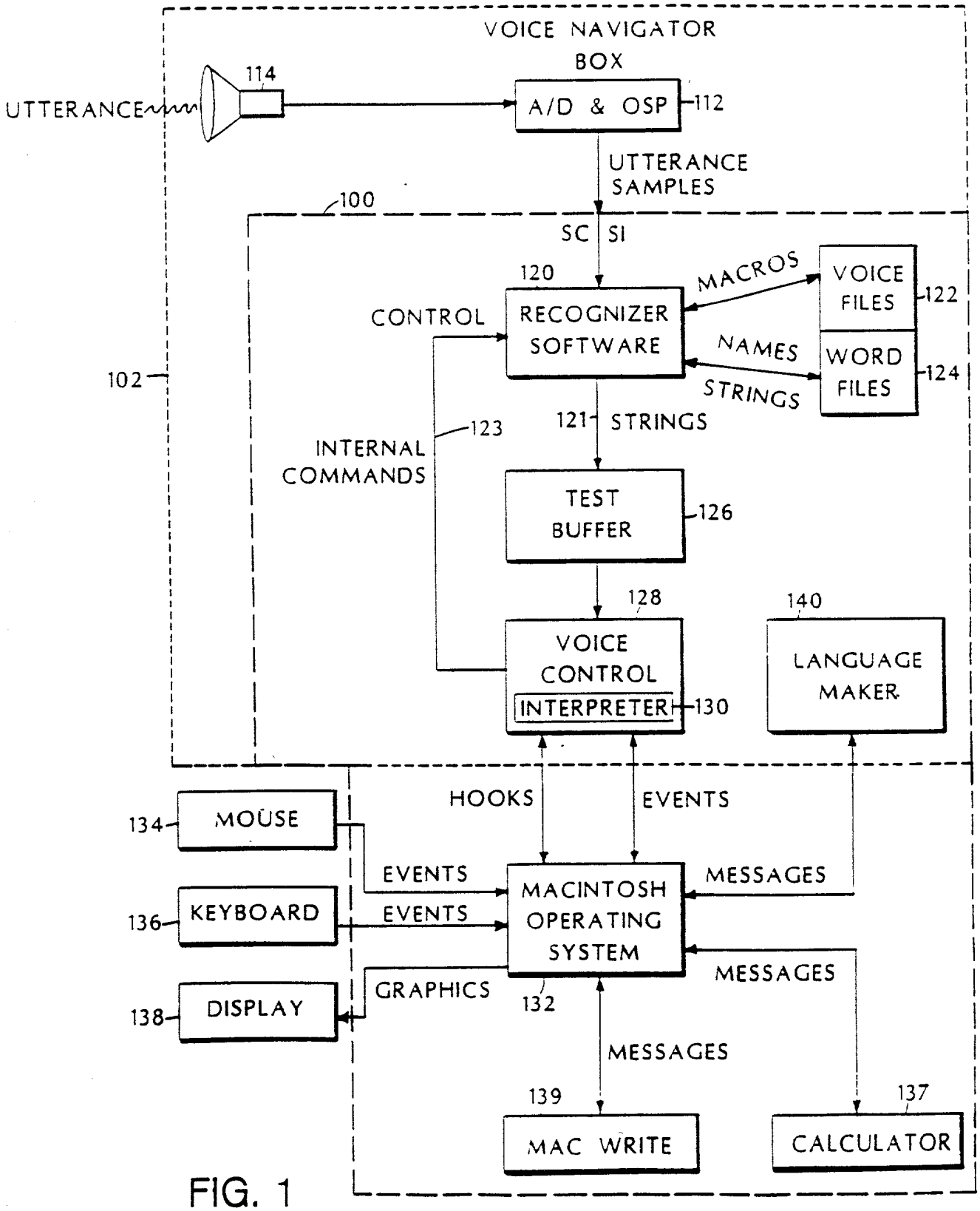

VOICE NAVIGATOR BOX
UTTERANCE
114
A/D & OSP
112
UTTERANCE SAMPLES
100
SC
SI
120
RECOGNIZER SOFTWARE
MACROS
VOICE FILES
122
CONTROL
NAMES
WORD FILES
124
STRINGS
102
121
STRINGS
123
INTERNAL COMMANDS
TEST BUFFER
126
128
VOICE CONTROL
INTERPRETER
130
140
LANGUAGE MAKER
HOOKS
EVENTS
134
MOUSE
EVENTS
MESSAGES
136
KEYBOARD
EVENTS
MACINTOSH OPERATING SYSTEM
MESSAGES
GRAPHICS
138
DISPLAY
132
MESSAGES
139
137
MAC WRITE
CALCULATOR

FIG. 1

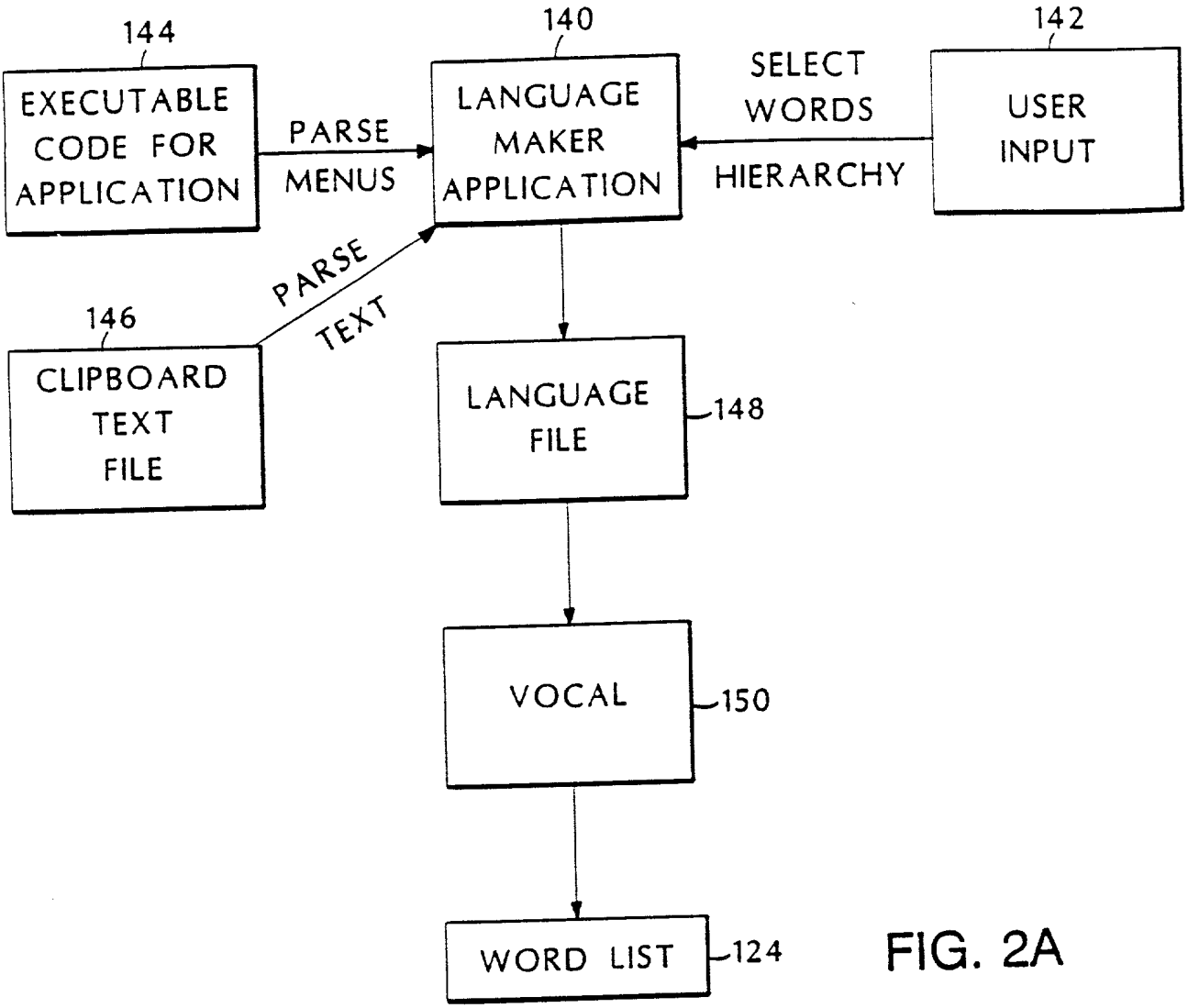

144
EXECUTABLE CODE FOR APPLICATION
PARSE MENUS
140
LANGUAGE MAKER APPLICATION
SELECT WORDS
HIERARCHY
142
USER INPUT
PARSE TEXT
146
CLIPBOARD TEXT FILE
LANGUAGE FILE
148
VOCAL
150
WORD LIST
124

FIG. 2A

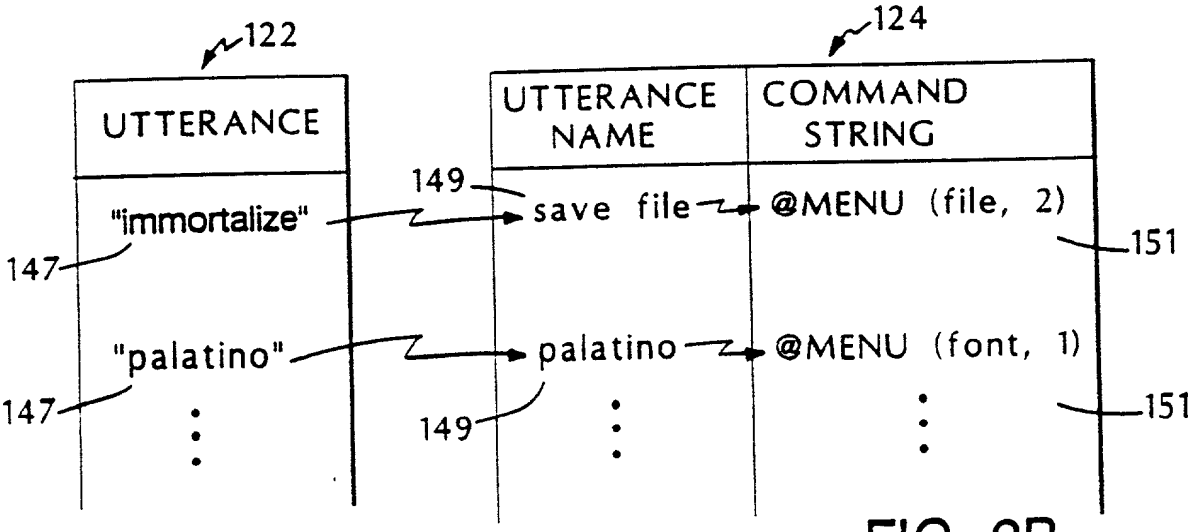

122
UTTERANCE
"immortalize"
147
"palatino"
147
124
UTTERANCE NAME
COMMAND STRING
149
save file
@MENU (file, 2)
151
palatino
@MENU (font, 1)
149
151

FIG. 2B

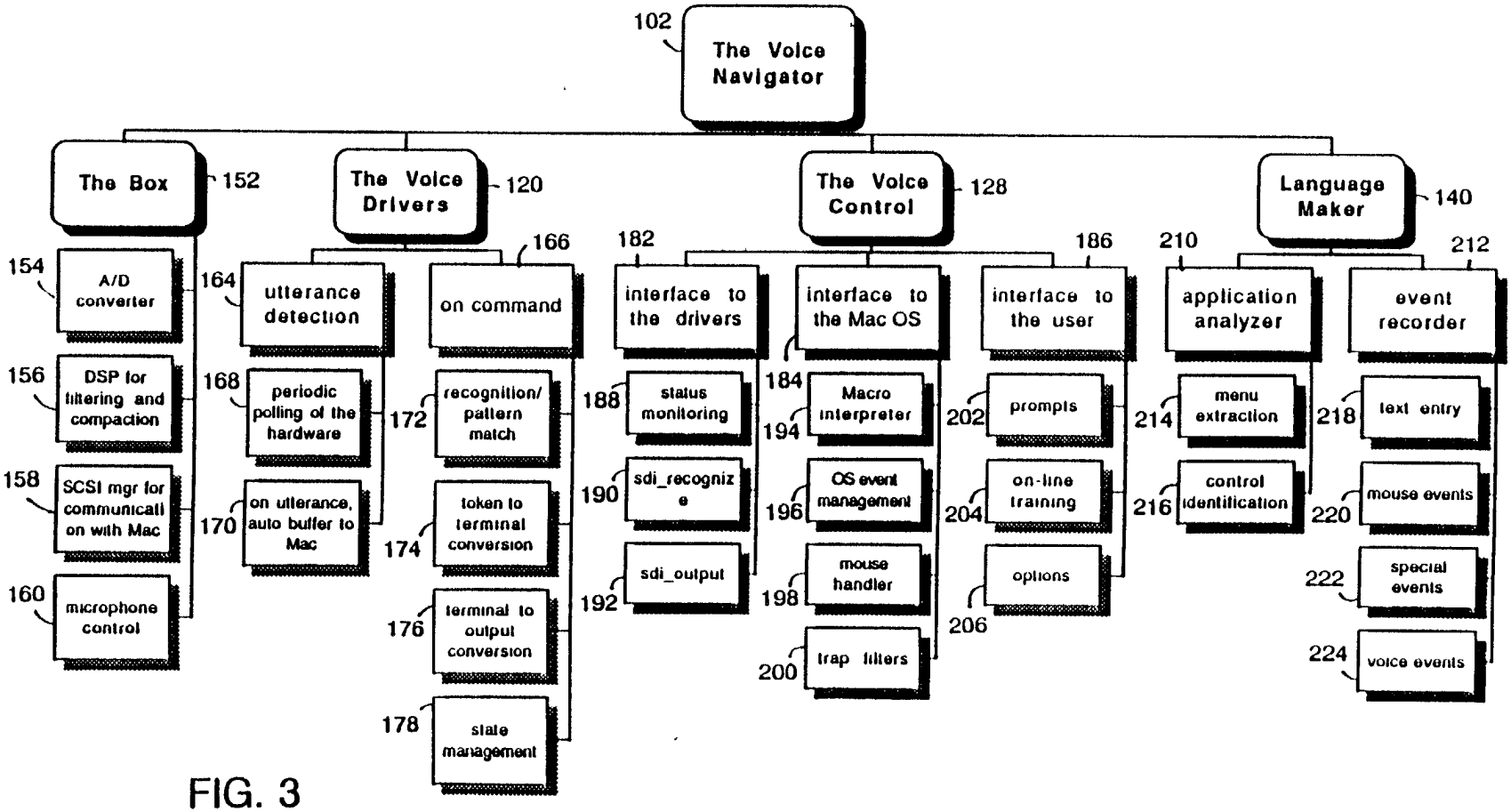

102
The Voice Navigator
The Box
152
The Voice Drivers
120
The Voice Control
128
Language Maker
140
154
A/D converter
156
DSP for filtering and compaction
158
SCSI mgr for communicati on with Mac
160
microphone control
164
utterance detection
168
periodic polling of the hardware
170
on utterance, auto buffer to Mac
166
on command
172
recognition/ pattern match
174
token to terminal conversion
176
terminal to output conversion
178
state management
182
interface to the drivers
188
status monitoring
190
sdi_recogniz e
192
sdi_output
186
interface to the Mac OS
184
Macro interpreter
194
OS event management
196
mouse handler
198
trap filters
200
interface to the user
202
prompts
204
on-line training
206
options
210
application analyzer
214
menu extraction
216
control identification
212
event recorder
218
text entry
220
mouse events
222
special events
224
voice events

FIG. 3

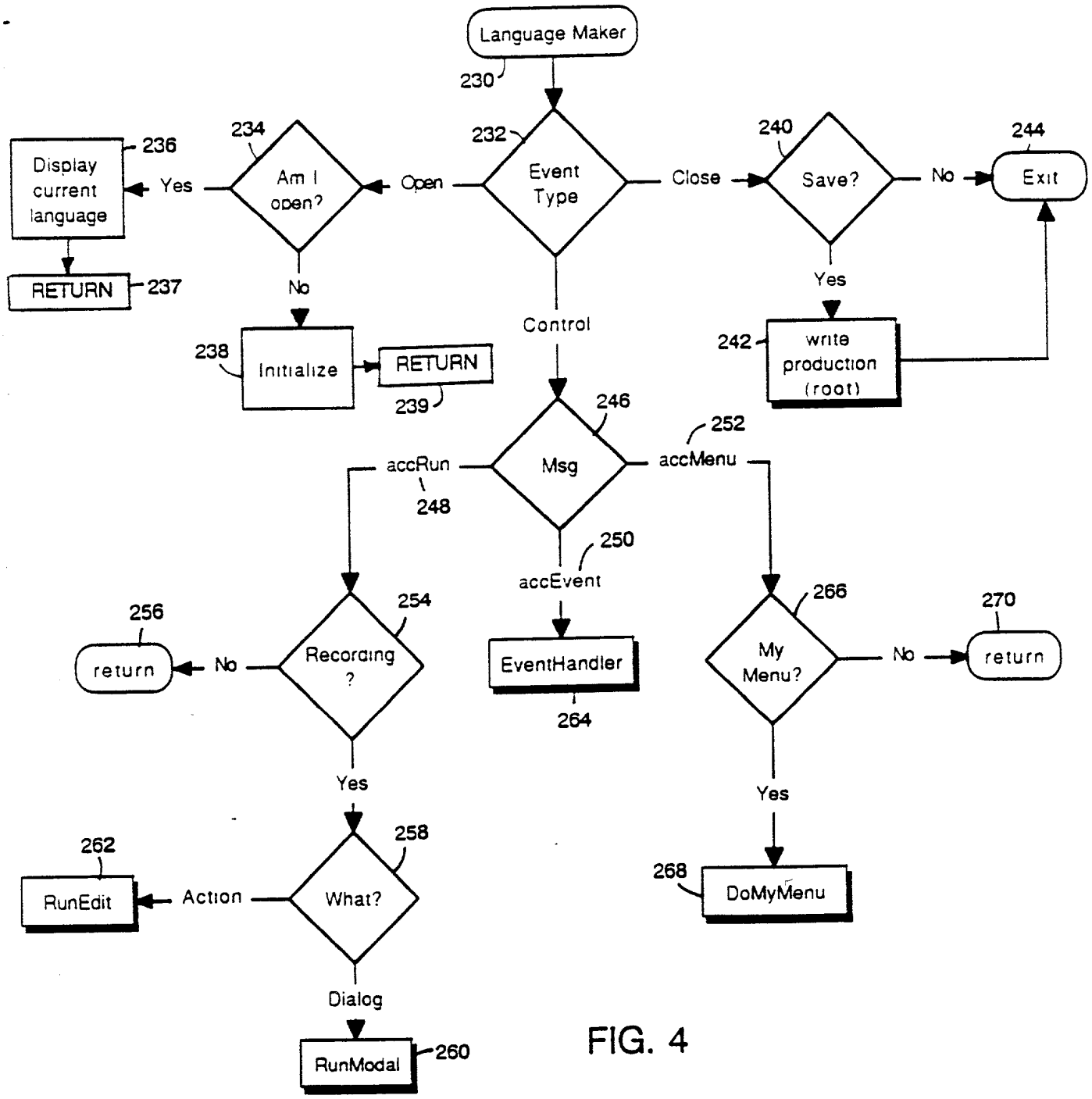

Language Maker
230
Event Type
232
Open
Close
Am I open?
234
Yes
No
Display current language
236
RETURN
237
Initialize
238
RETURN
239
Control
Save?
240
No
Exit
244
Yes
write production (root)
242
Msg
246
accRun
248
accMenu
252
accEvent
250
Recording ?
254
return
256
No
Yes
What?
258
Action
RunEdit
262
Dialog
RunModal
260
EventHandler
264
My Menu?
266
No
return
270
Yes
DoMyMenu
268

FIG. 4

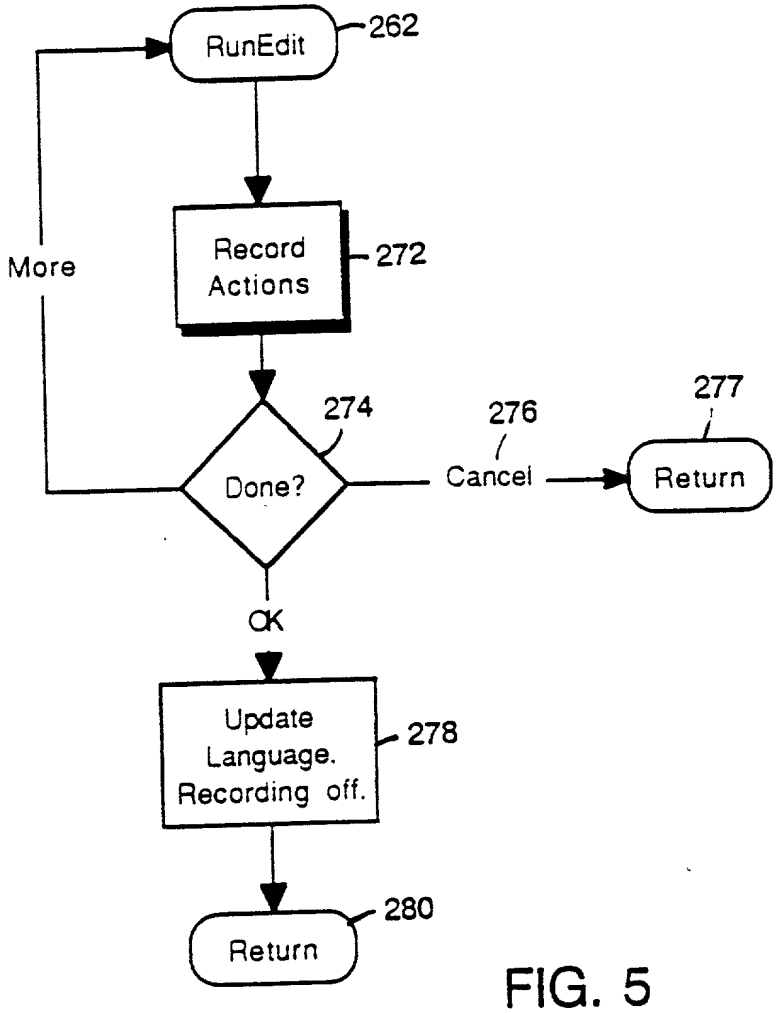

RunEdit
262
Record Actions
272
More
Done?
274
276
Cancel
277
Return
OK
Update Language. Recording off.
278
Return
280

FIG. 5

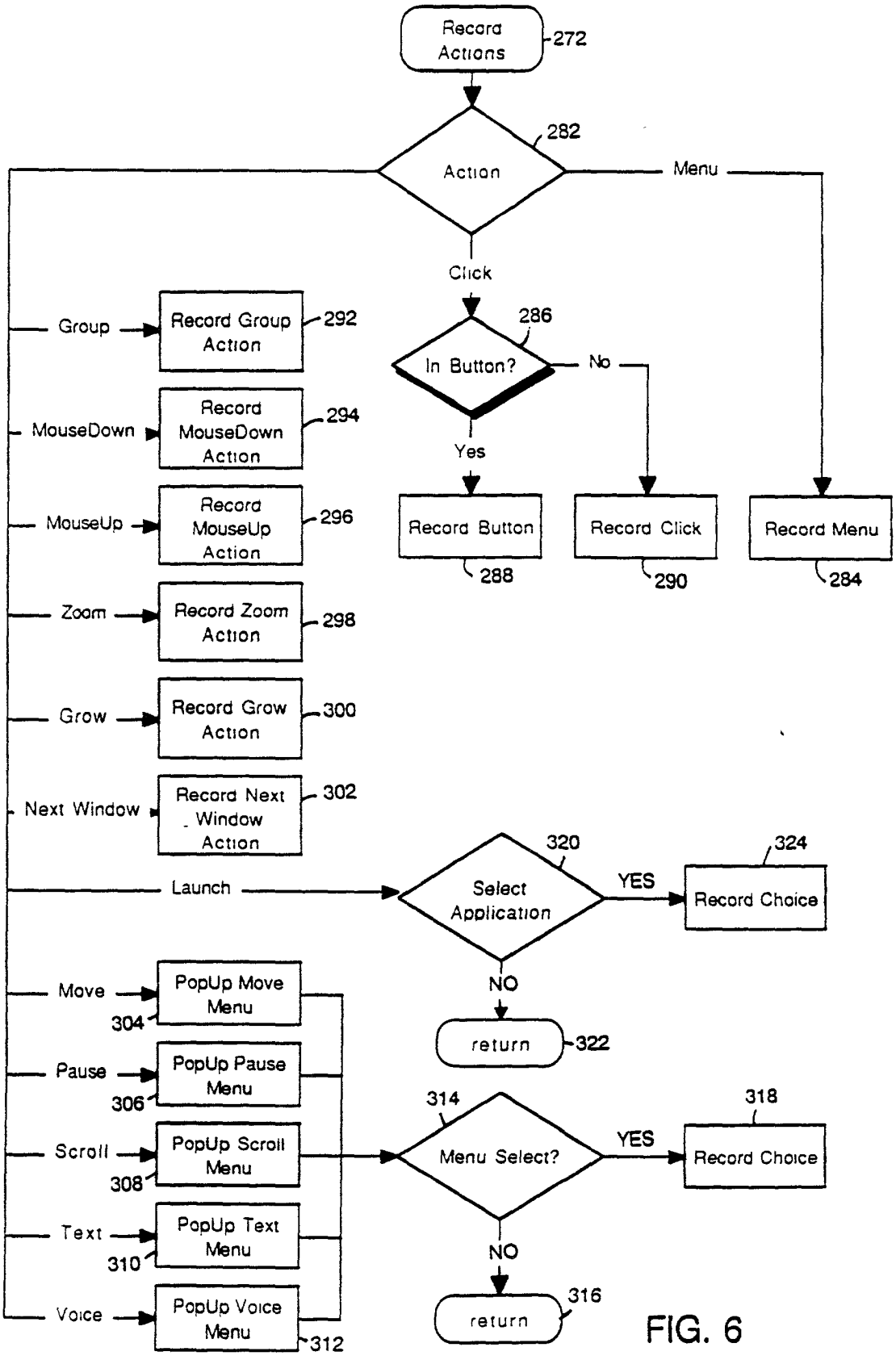

Record Actions
272
Action
282
Menu
Click
In Button?
286
No
Yes
Record Button
288
Record Click
290
Record Menu
284
Group
Record Group Action
292
MouseDown
Record MouseDown Action
294
MouseUp
Record MouseUp Action
296
Zoom
Record Zoom Action
298
Grow
Record Grow Action
300
Next Window
Record Next Window Action
302
Launch
Select Application
320
YES
Record Choice
324
NO
return
322
Move
PopUp Move Menu
304
Pause
PopUp Pause Menu
306
Scroll
PopUp Scroll Menu
308
Text
PopUp Text Menu
310
Voice
PopUp Voice Menu
312
Menu Select?
314
YES
Record Choice
318
NO
return
316

FIG. 6

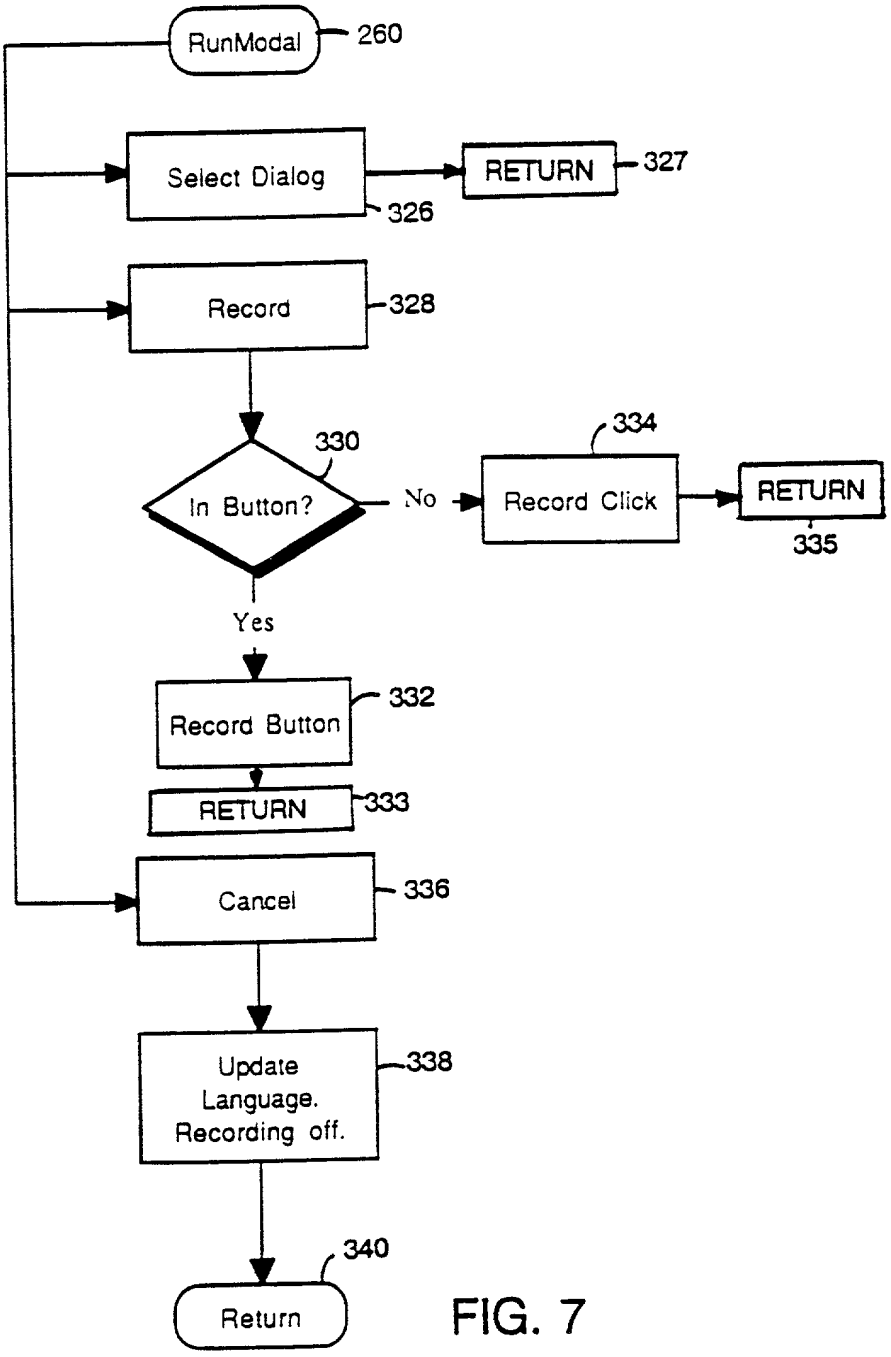

RunModal
260
Select Dialog
326
RETURN
327
Record
328
330
In Button?
No
334
Record Click
RETURN
335
Yes
Record Button
332
RETURN
333
Cancel
336
Update
Language.
Recording off.
338
340
Return

FIG. 7

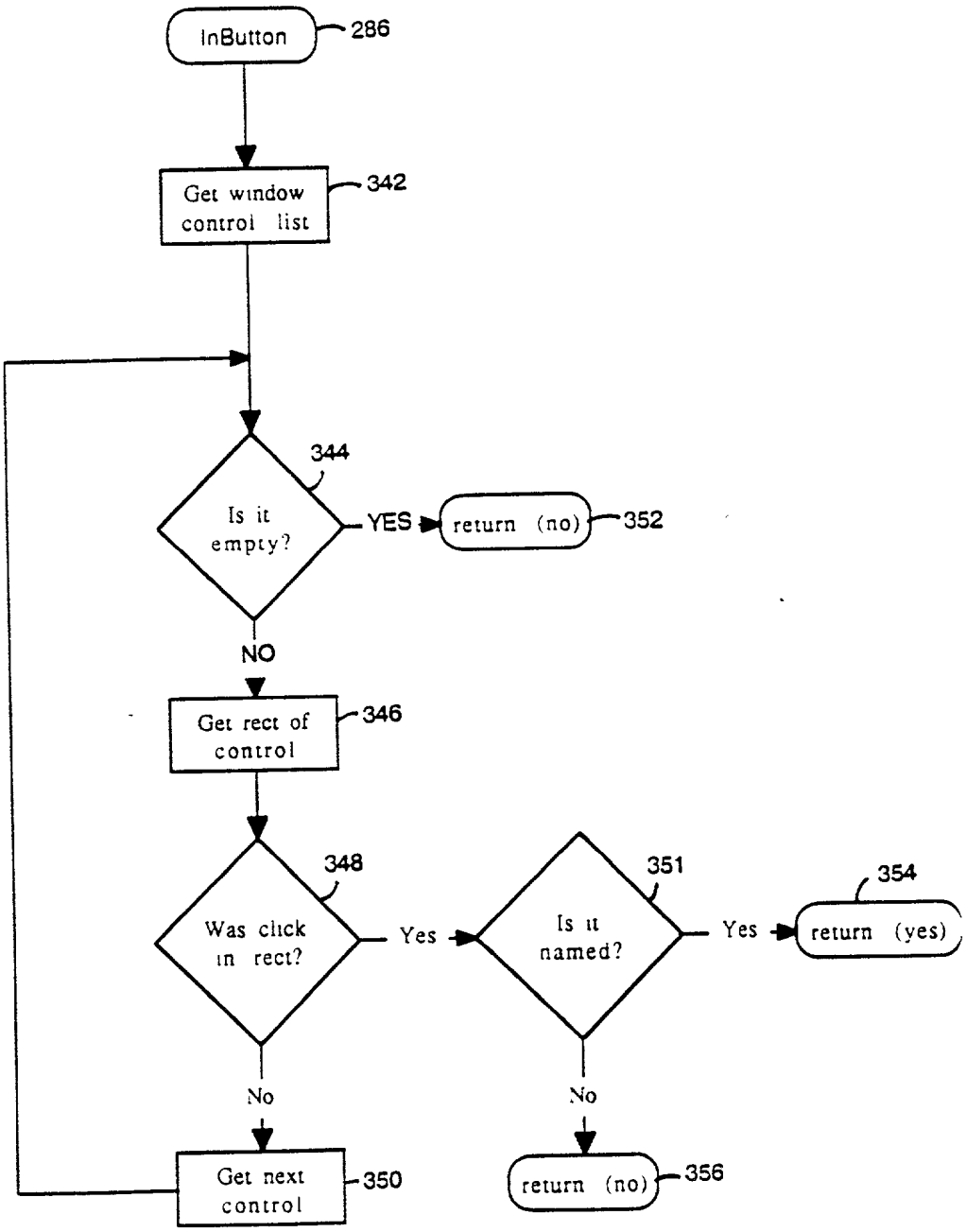

InButton
286
Get window control list
342
344
Is it empty?
YES
return (no)
352
NO
Get rect of control
346
348
Was click in rect?
Yes
351
Is it named?
Yes
354
return (yes)
No
No
Get next control
350
return (no)
356

FIG. 8

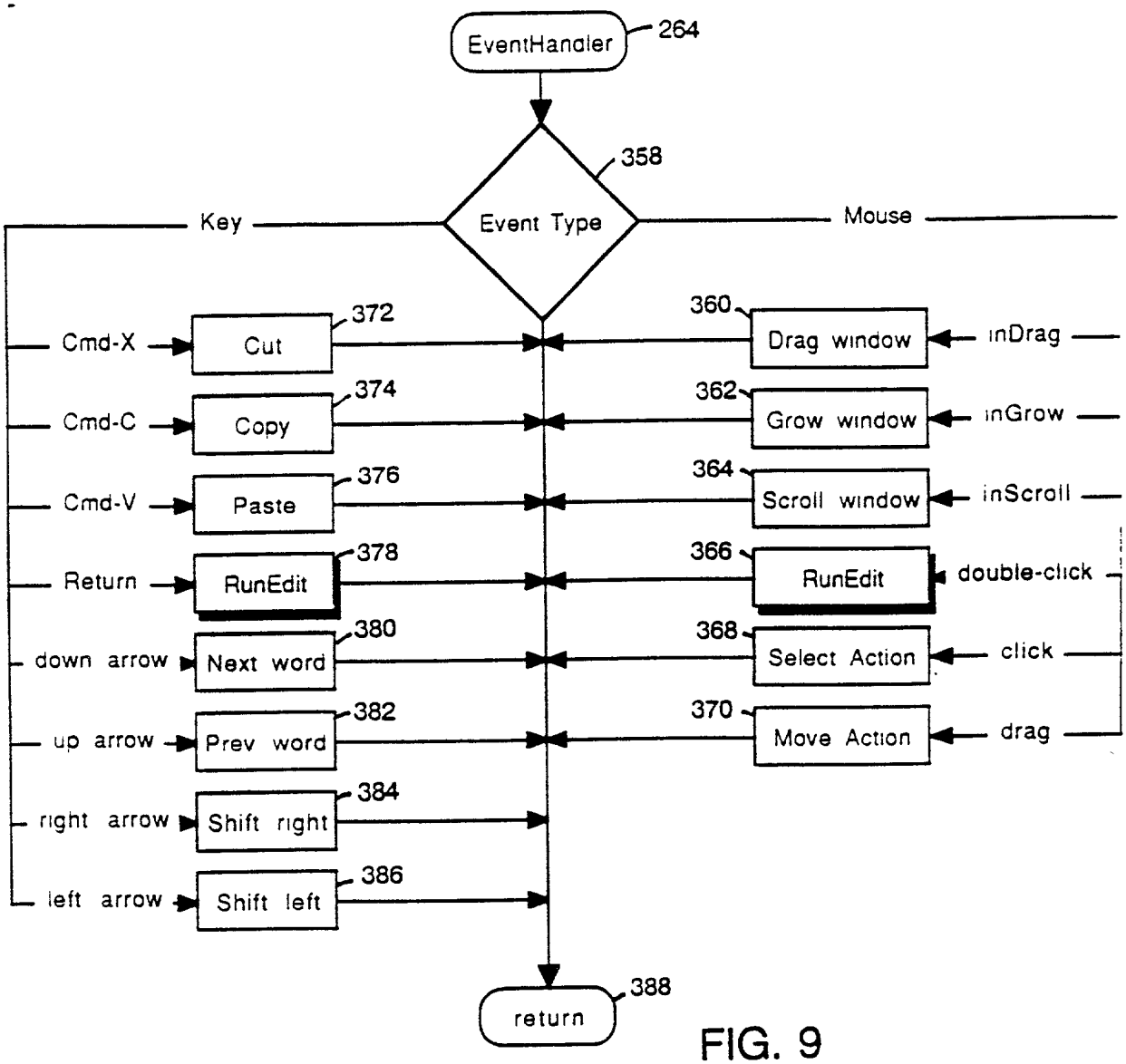

EventHandler
264
Event Type
358
Key
Mouse
Cmd-X
Cut
372
Cmd-C
Copy
374
Cmd-V
Paste
376
Return
RunEdit
378
down arrow
Next word
380
up arrow
Prev word
382
right arrow
Shift right
384
left arrow
Shift left
386
Drag window
360
inDrag
Grow window
362
inGrow
Scroll window
364
inScroll
RunEdit
366
double-click
Select Action
368
click
Move Action
370
drag
return
388

FIG. 9

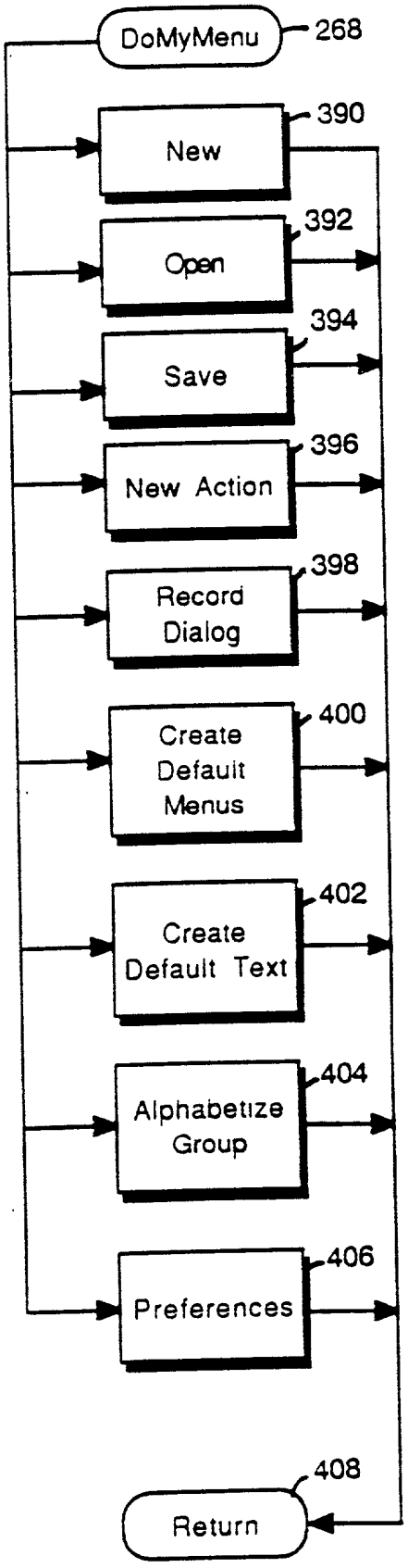

DoMyMenu
268
New
390
Open
392
Save
394
New Action
396
Record Dialog
398
Create Default Menus
400
Create Default Text
402
Alphabetize Group
404
Preferences
406
Return
408

FIG. 10

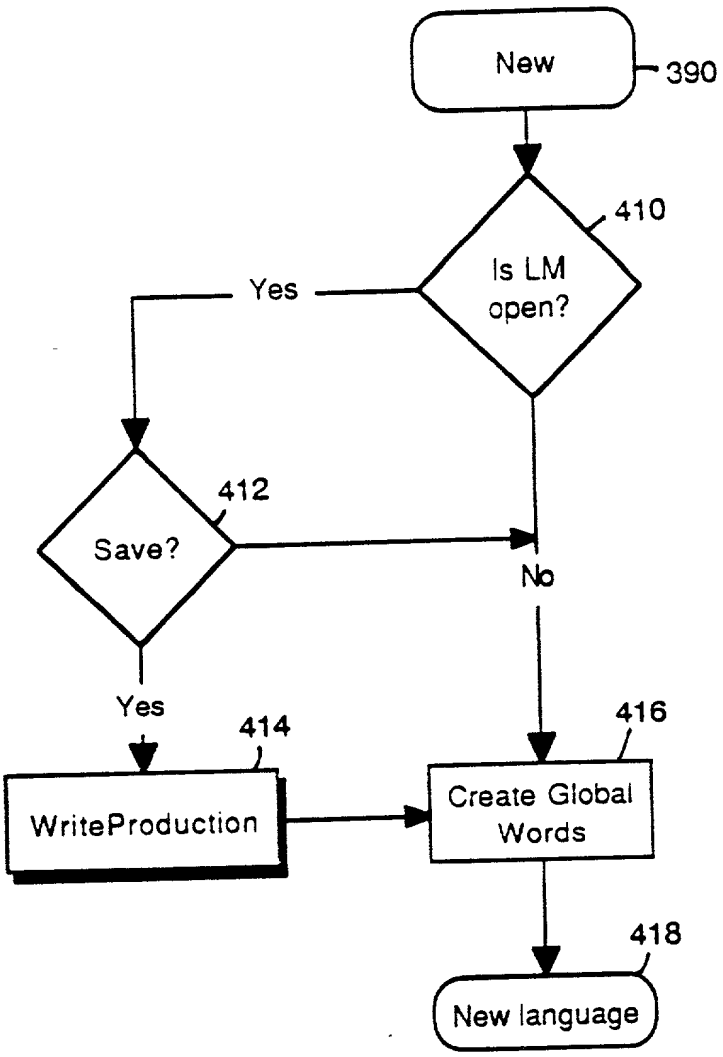

New
390
410
Is LM open?
Yes
412
Save?
No
Yes
414
WriteProduction
416
Create Global Words
418
New language

FIG. 11A

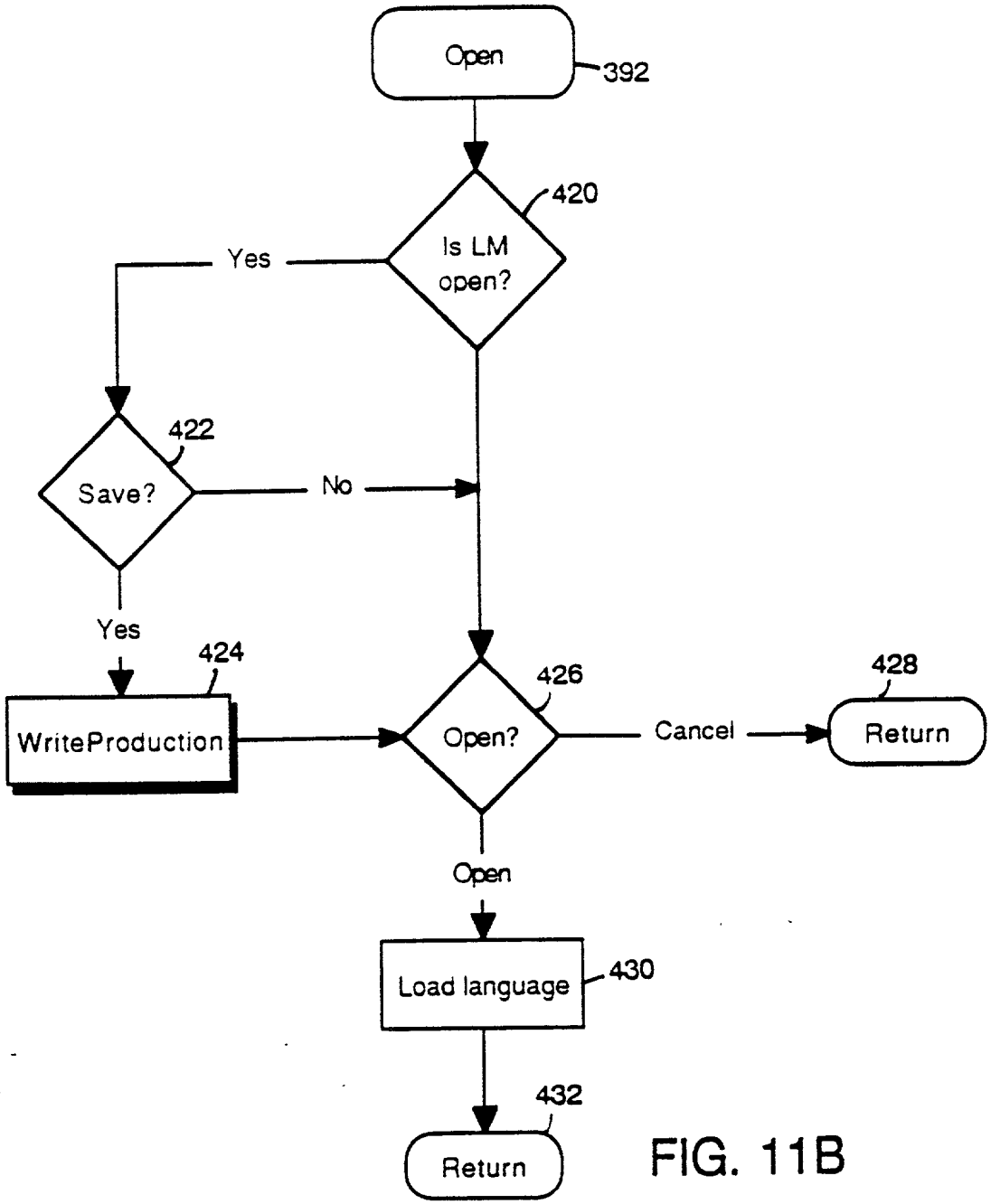

Open
392
420
Is LM open?
Yes
422
Save?
No
Yes
424
WriteProduction
426
Open?
Cancel
428
Return
Open
Load language
430
432
Return

FIG. 11B

Document - Doc1

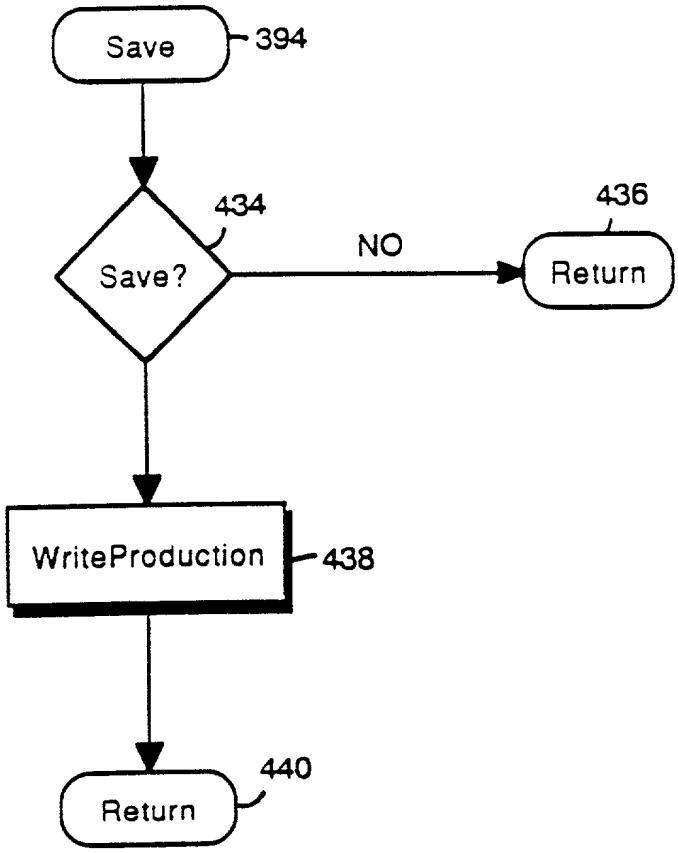


FIG. 11C

Document 5 of 5 - Copyright 1994 Microsoft Corporation

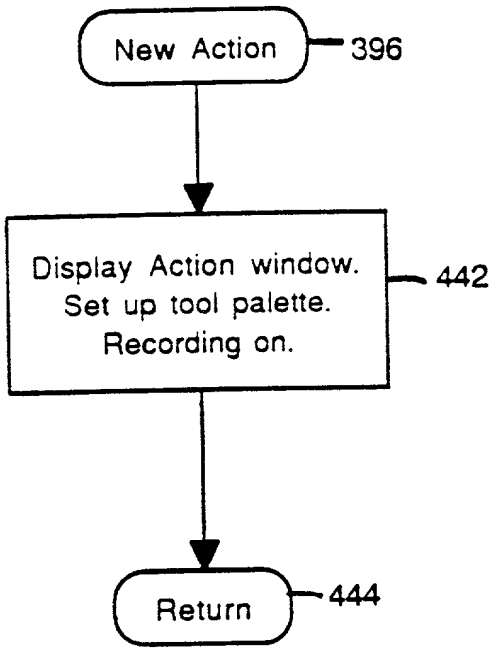


FIG. 11D

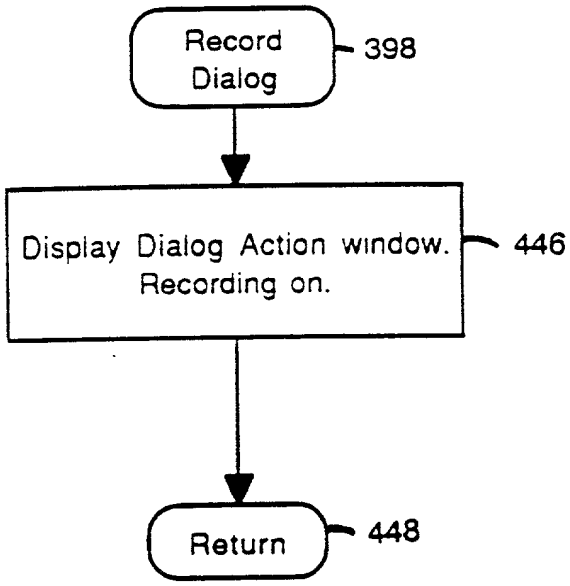

Record Dialog
398
Display Dialog Action window. Recording on.
446
Return
448

FIG. 11E

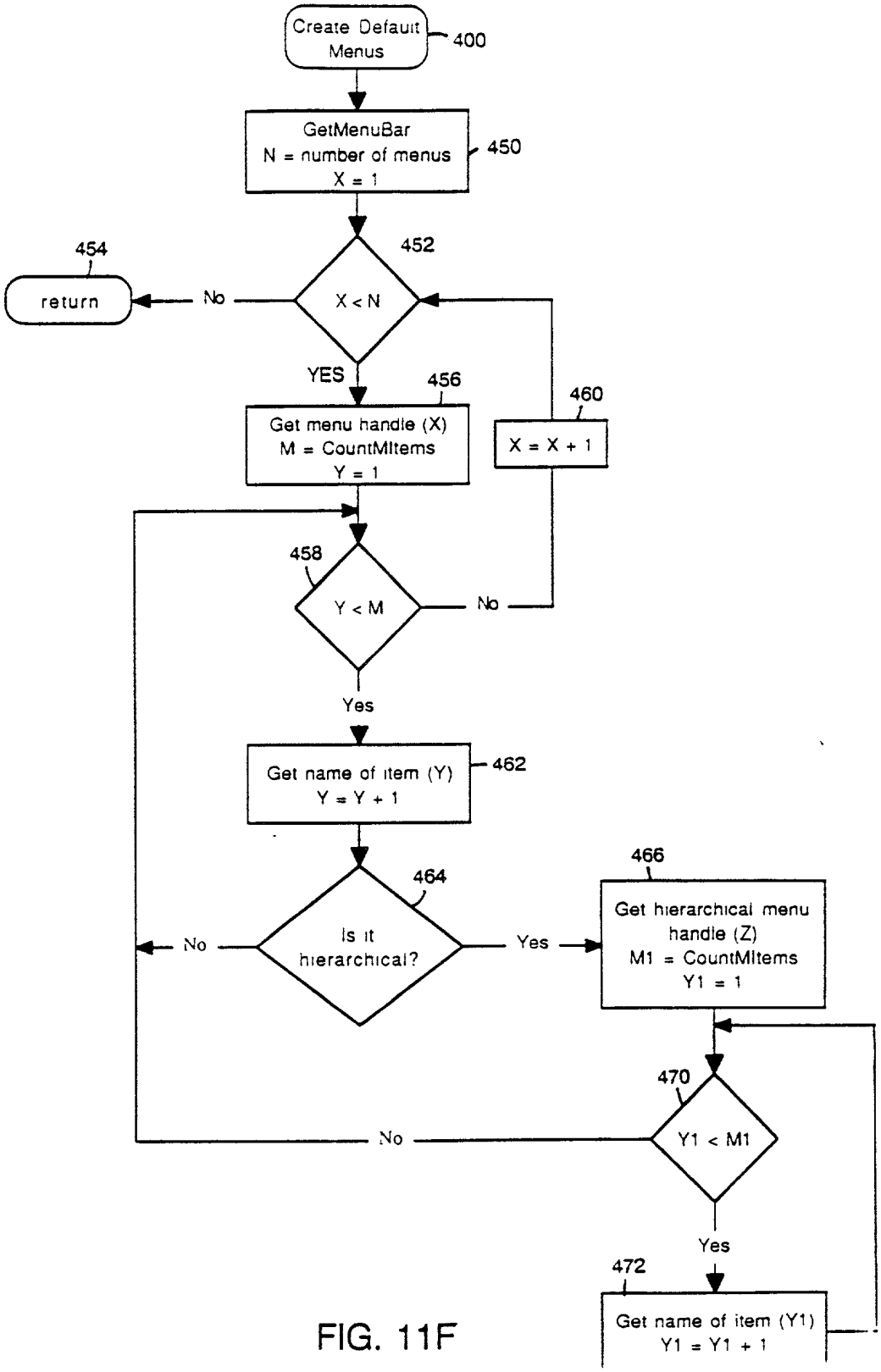

Create Default Menus
400
GetMenuBar
N = number of menus
X = 1
450
452
X < N
No
454
return
YES
456
Get menu handle (X)
M = CountMItems
Y = 1
460
X = X + 1
458
Y < M
No
Yes
Get name of item (Y)
Y = Y + 1
462
464
Is it hierarchical?
No
Yes
466
Get hierarchical menu handle (Z)
M1 = CountMItems
Y1 = 1
470
Y1 < M1
No
Yes
472
Get name of item (Y1)
Y1 = Y1 + 1

FIG. 11F

Microsoft Corporation - Exhibit 1004 - Page 1004

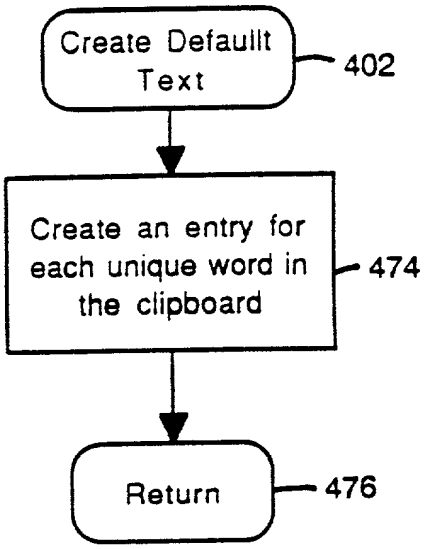


FIG. 11G

Microsoft Exhibit 1003
U.S. Patent 5,920,325

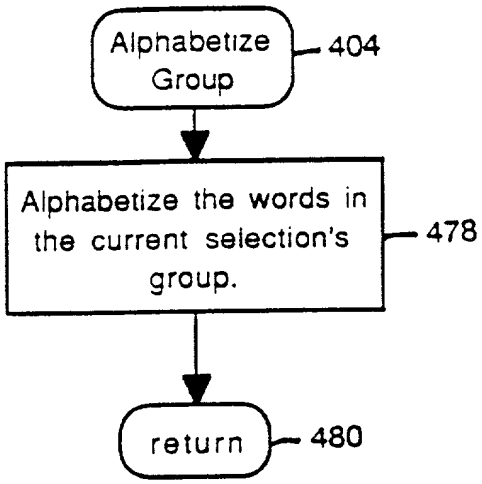


FIG. 11H

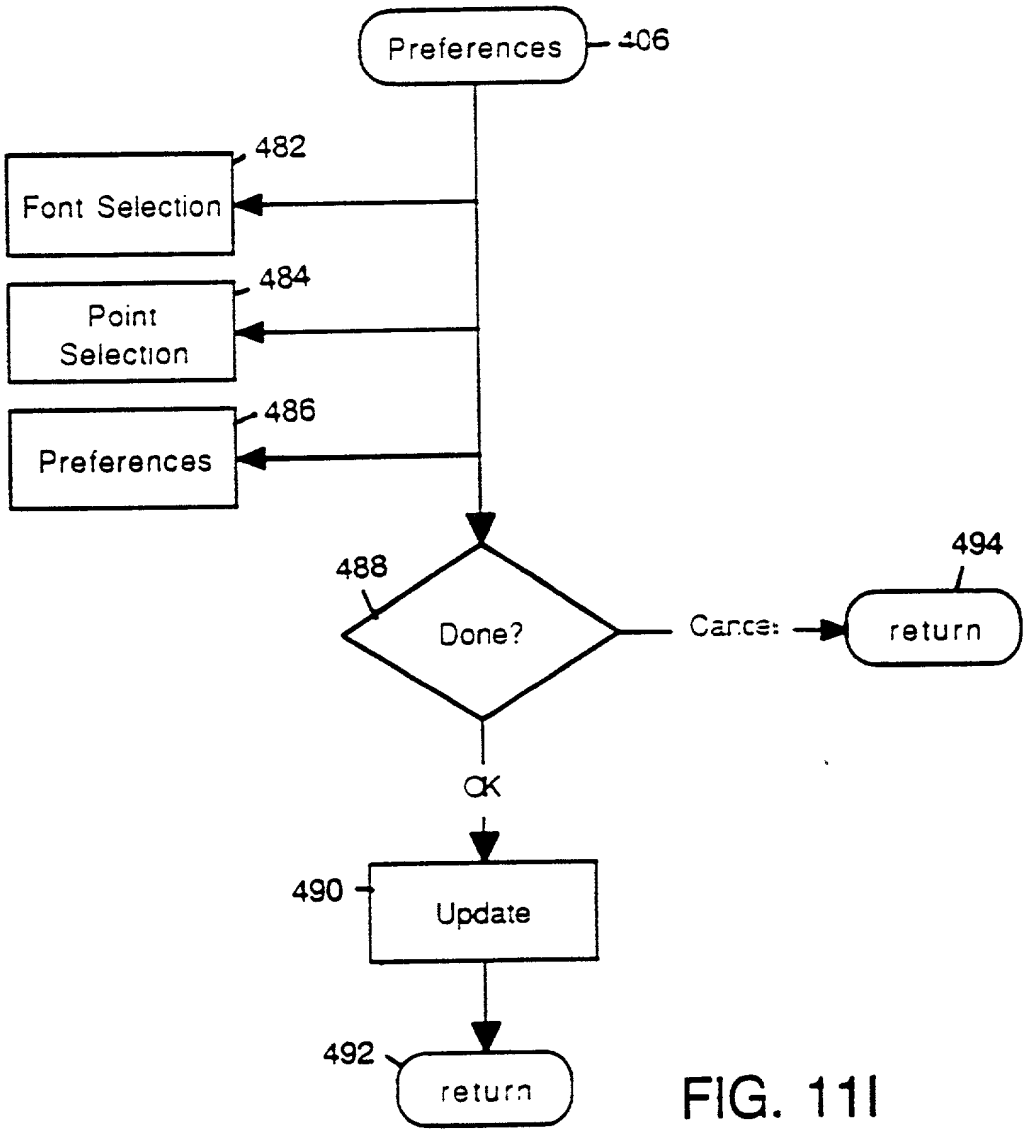

Preferences
406
482
Font Selection
484
Point Selection
486
Preferences
488
Done?
Cancel
494
return
OK
490
Update
492
return

FIG. 11I

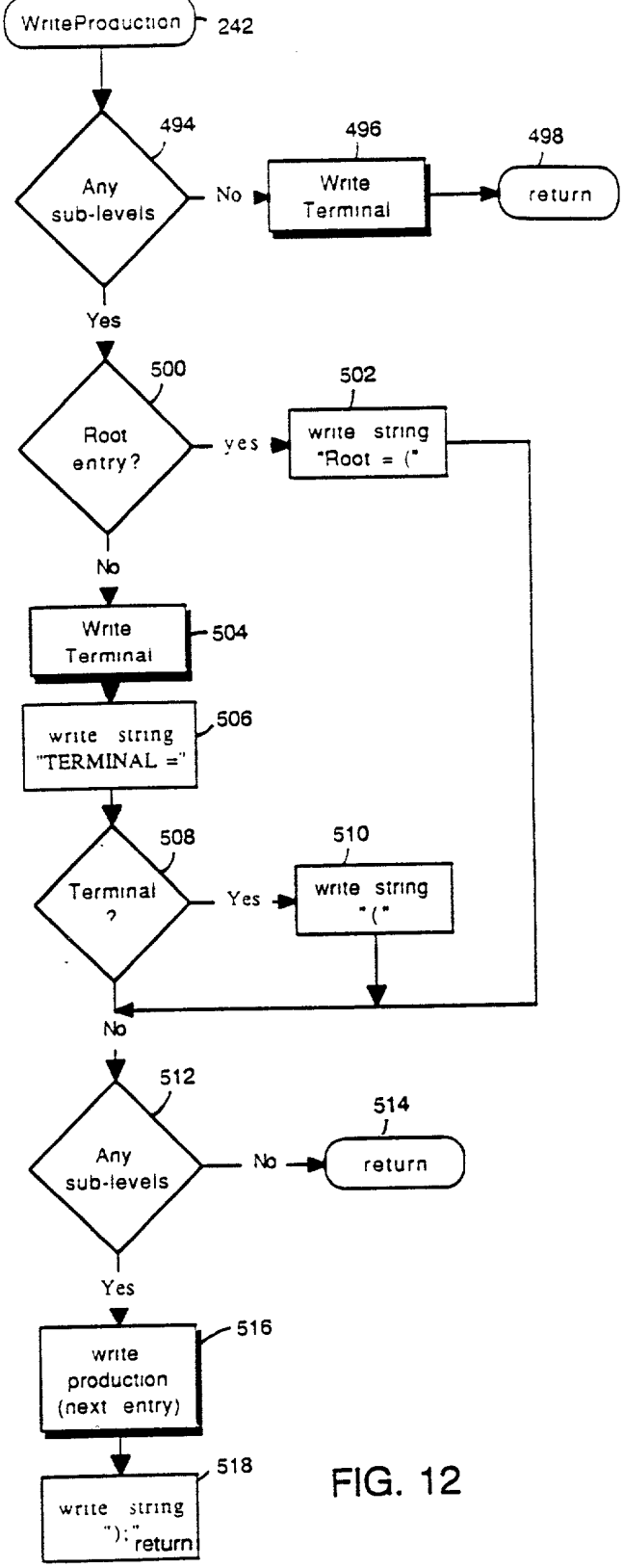

WriteProduction
242
494
Any sub-levels
No
496
Write Terminal
498
return
Yes
500
Root entry?
yes
502
write string "Root = ("
No
Write Terminal
504
write string "TERMINAL ="
506
508
Terminal ?
Yes
510
write string "("
No
512
Any sub-levels
No
514
return
Yes
write production (next entry)
516
write string "):"
518
return

FIG. 12

Petitioner's Exhibit 1003 - Page 1355

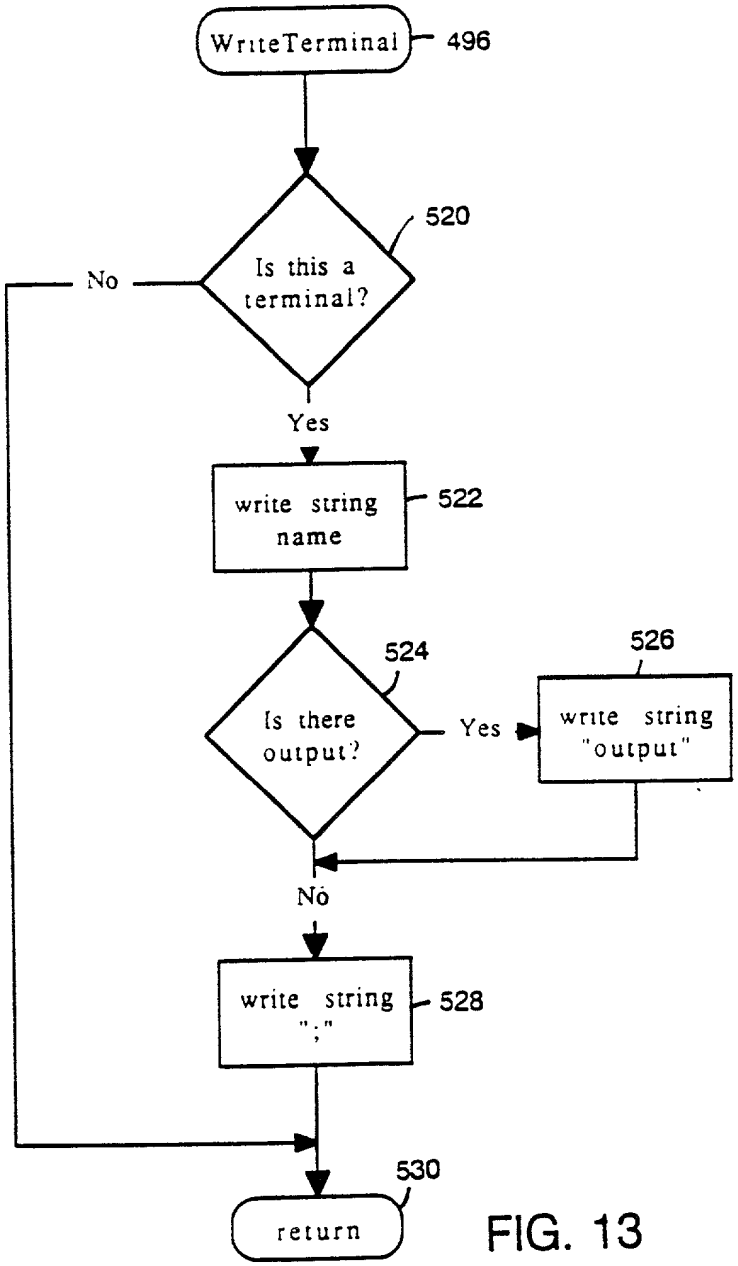


FIG. 13

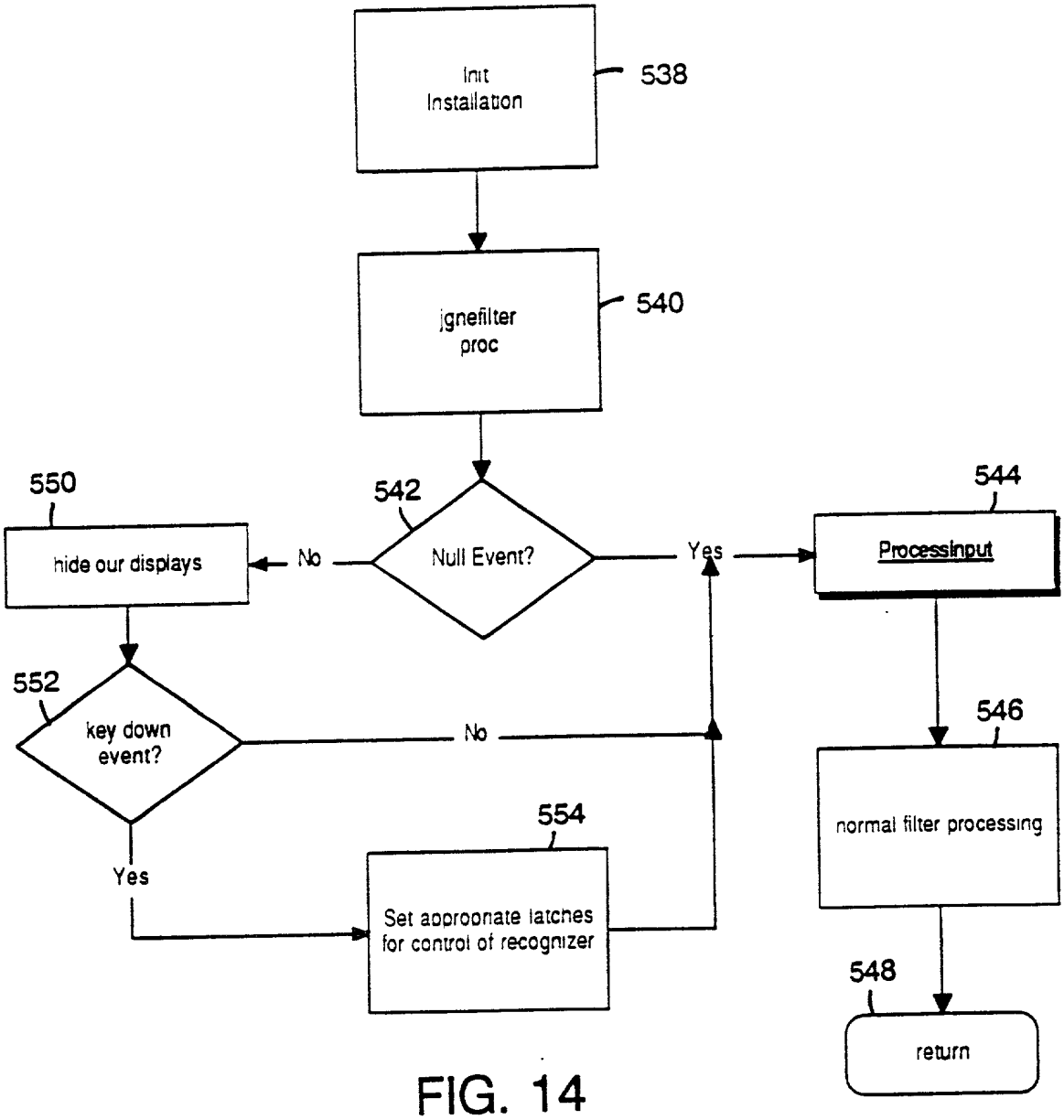

Init
Installation
538
jgnefilter
proc
540
542
Null Event?
No
Yes
550
hide our displays
544
ProcessInput
552
key down
event?
No
546
normal filter processing
554
Yes
Set appropriate latches
for control of recognizer
548
return

FIG. 14

Page 3 of 5 Doc 5,305,420

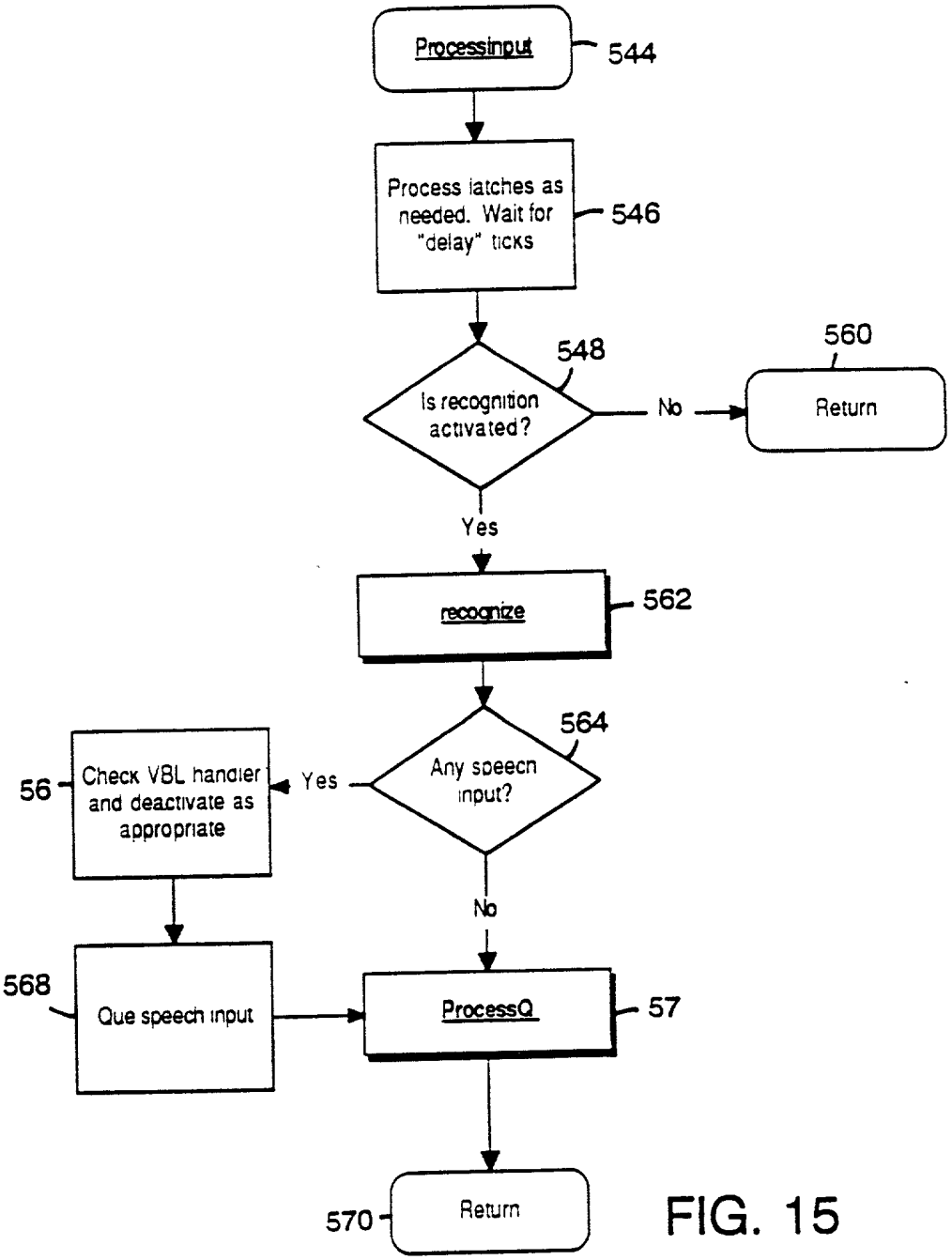


FIG. 15

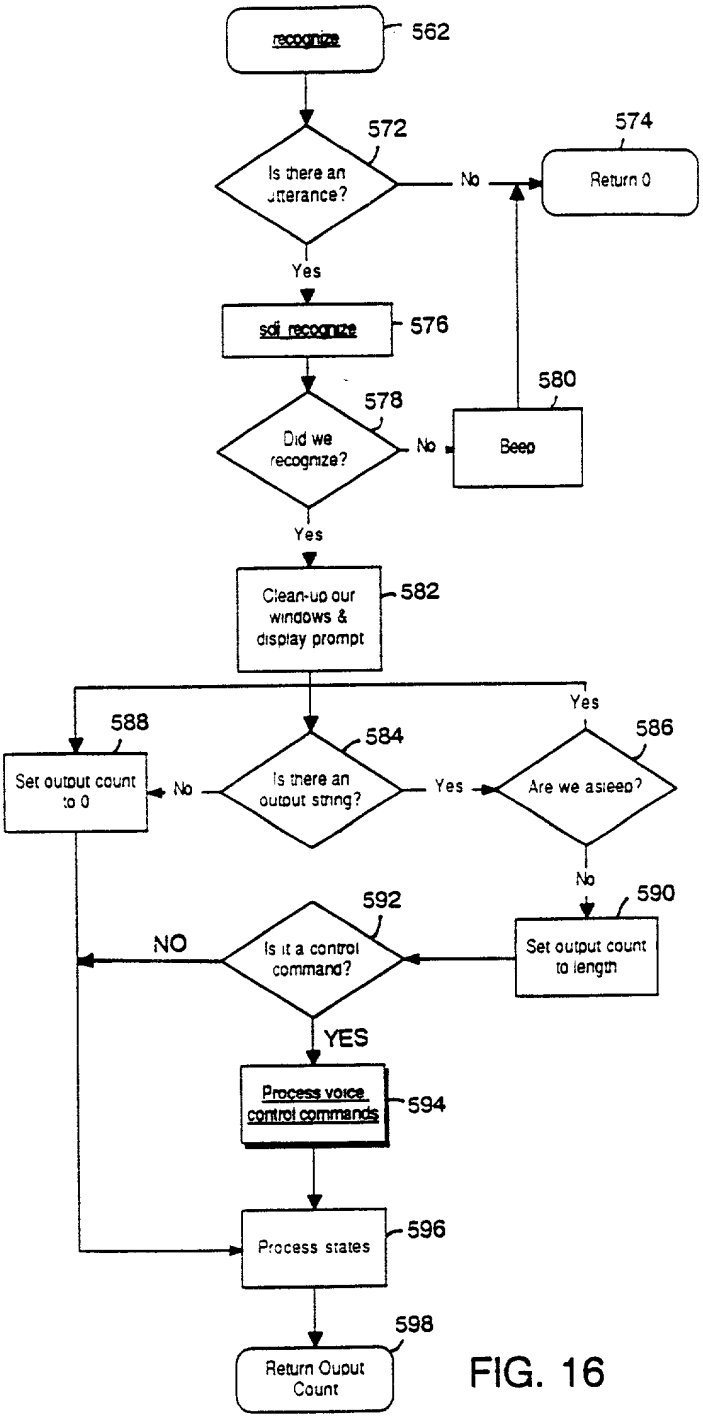

recognize
562
Is there an utterance?
572
No
Return 0
574
Yes
sdi_recognize
576
Did we recognize?
578
No
Beep
580
Yes
Clean-up our windows & display prompt
582
Yes
Set output count to 0
588
No
Is there an output string?
584
Yes
Are we asleep?
586
No
Set output count to length
590
Is it a control command?
592
NO
YES
Process voice control commands
594
Process states
596
Return Ouput Count
598

FIG. 16

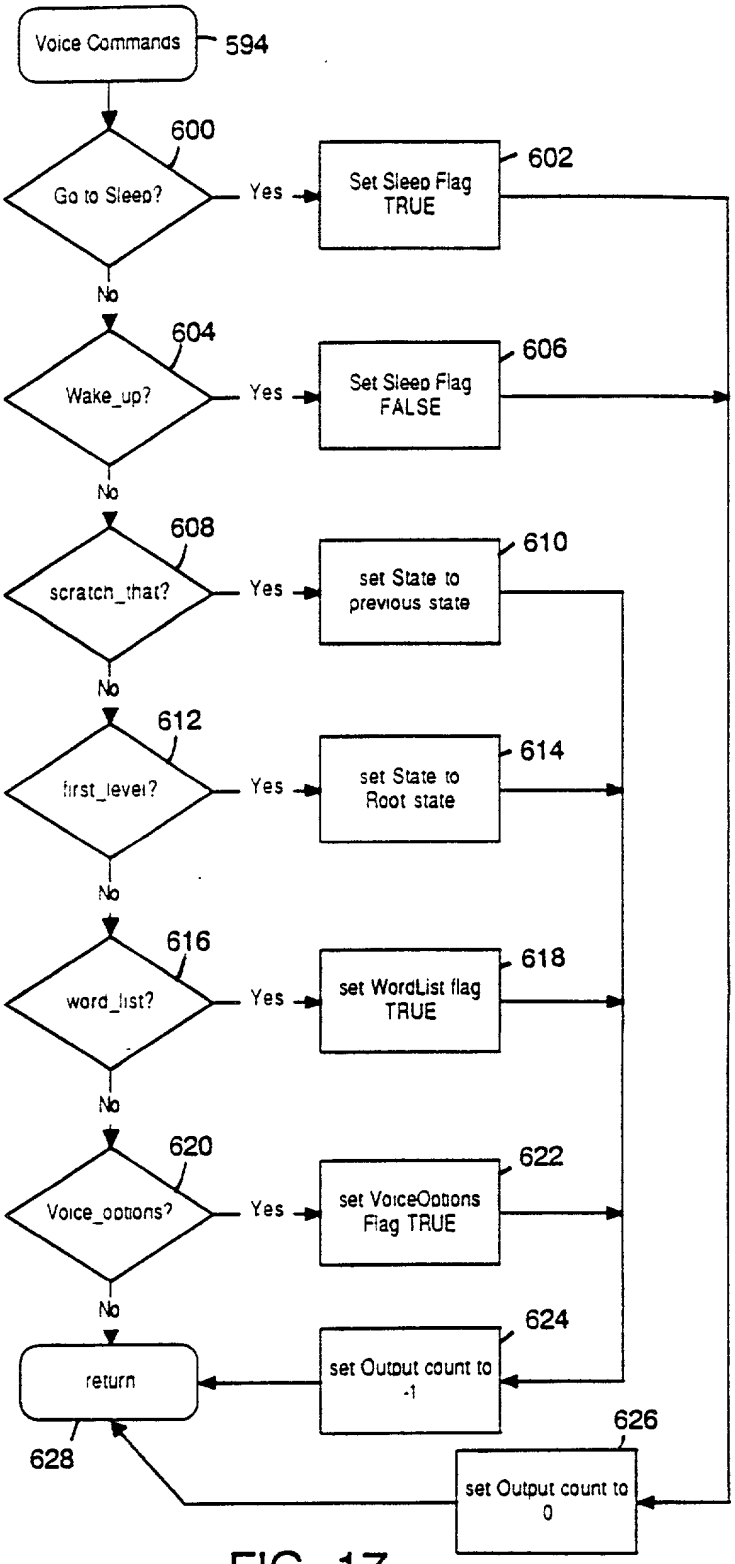

Voice Commands
594
600
Go to Sleep?
Yes
Set Sleep Flag TRUE
602
No
604
Wake_up?
Yes
Set Sleep Flag FALSE
606
No
608
scratch_that?
Yes
set State to previous state
610
No
612
first_level?
Yes
set State to Root state
614
No
616
word_list?
Yes
set WordList flag TRUE
618
No
620
Voice_options?
Yes
set VoiceOptions Flag TRUE
622
No
return
628
set Output count to -1
624
set Output count to 0
626

FIG. 17

Microsoft Corporation - Exhibit 1002 - Page 1 of 5

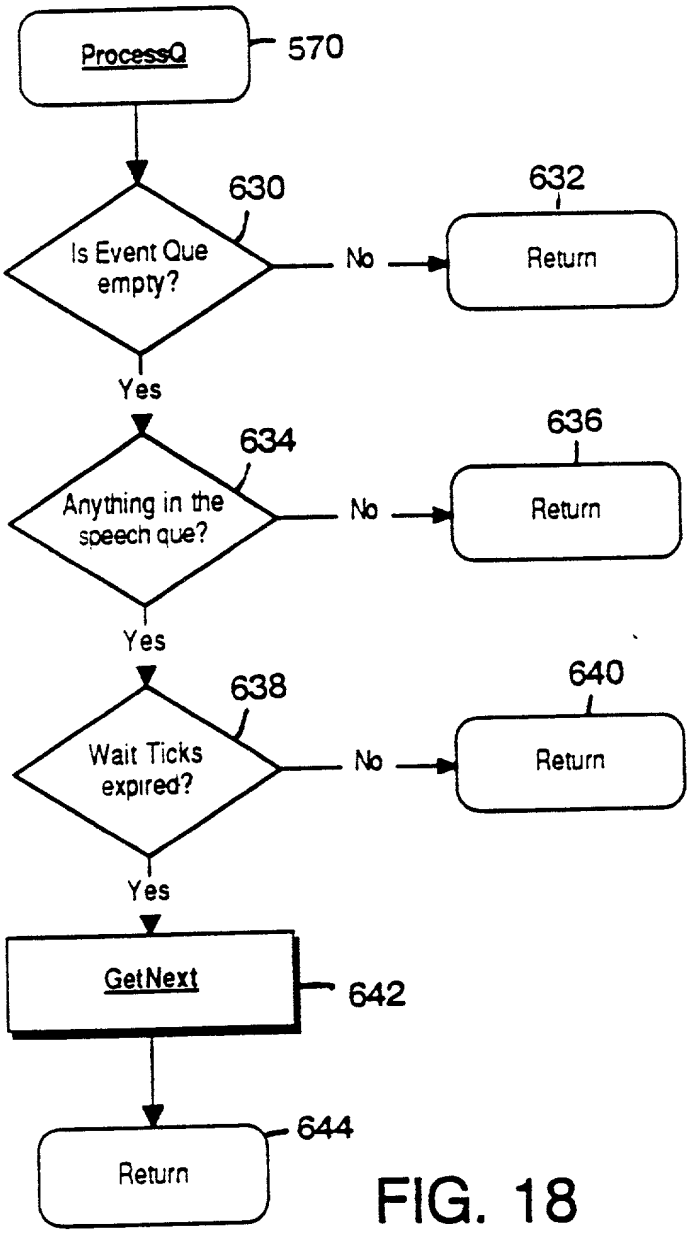


FIG. 18

Page 5 of 5 Docket No. 5050-0

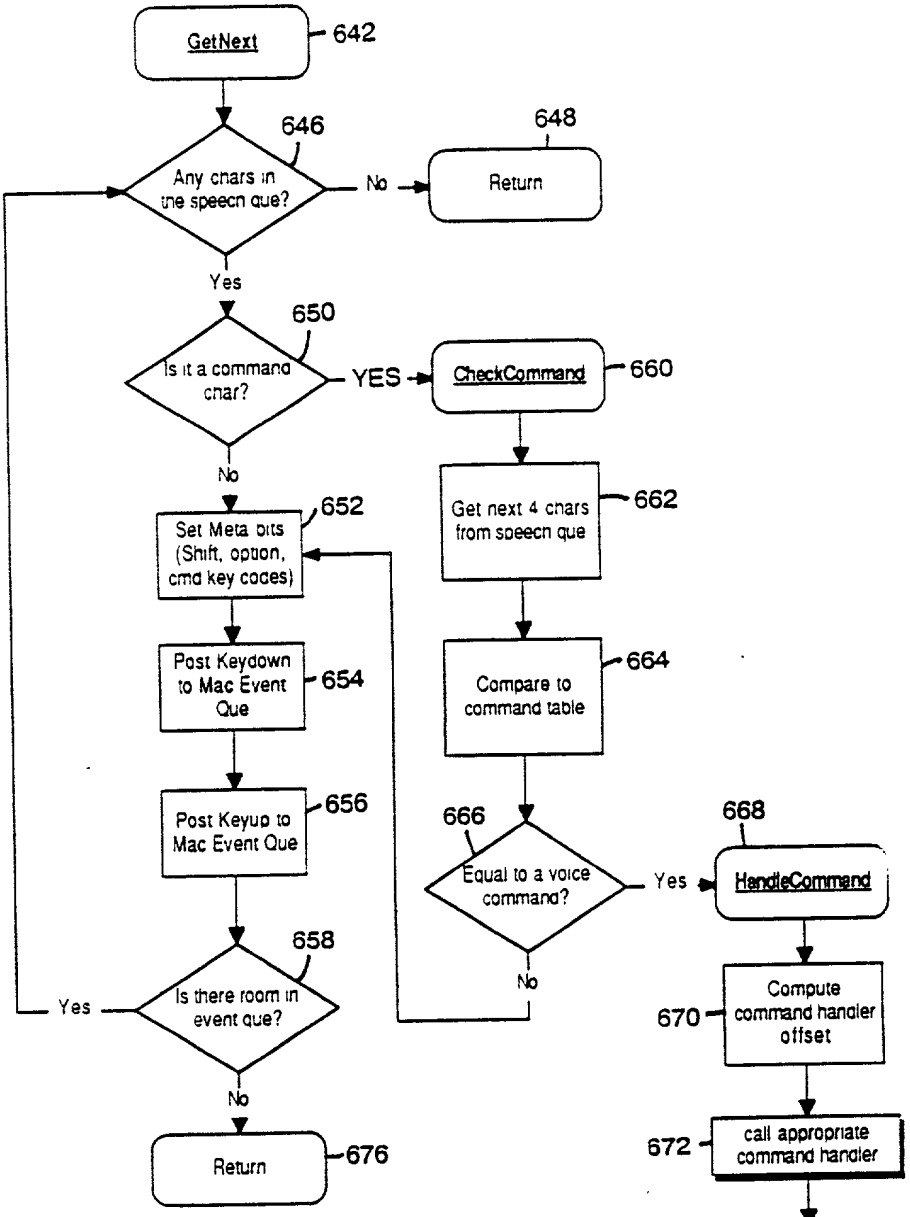


FiG. 19

Patent Application Publication Oct. 5, 2006 Sheet 20 of 20 US 2006/0224993 A1

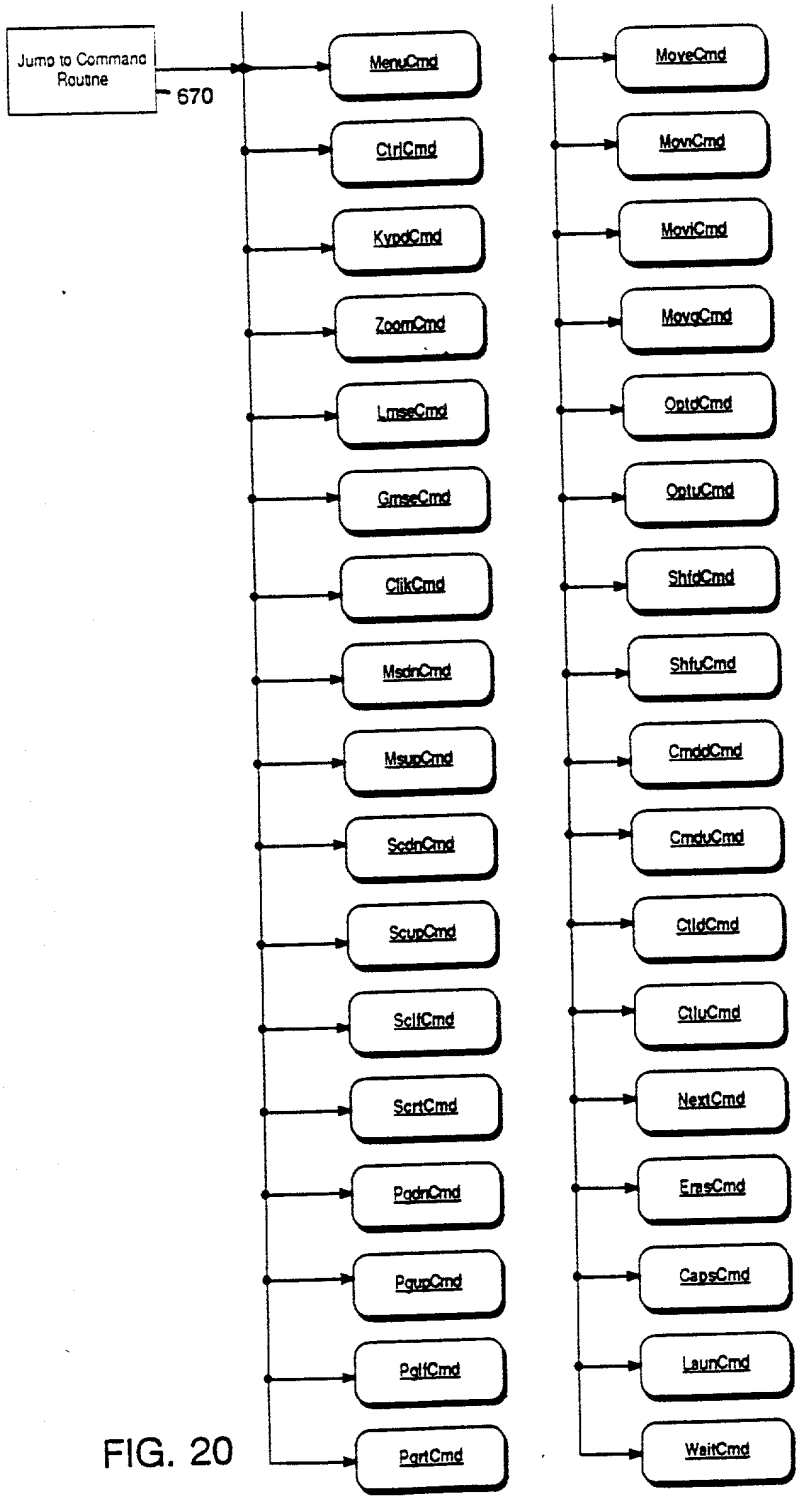


FIG. 20

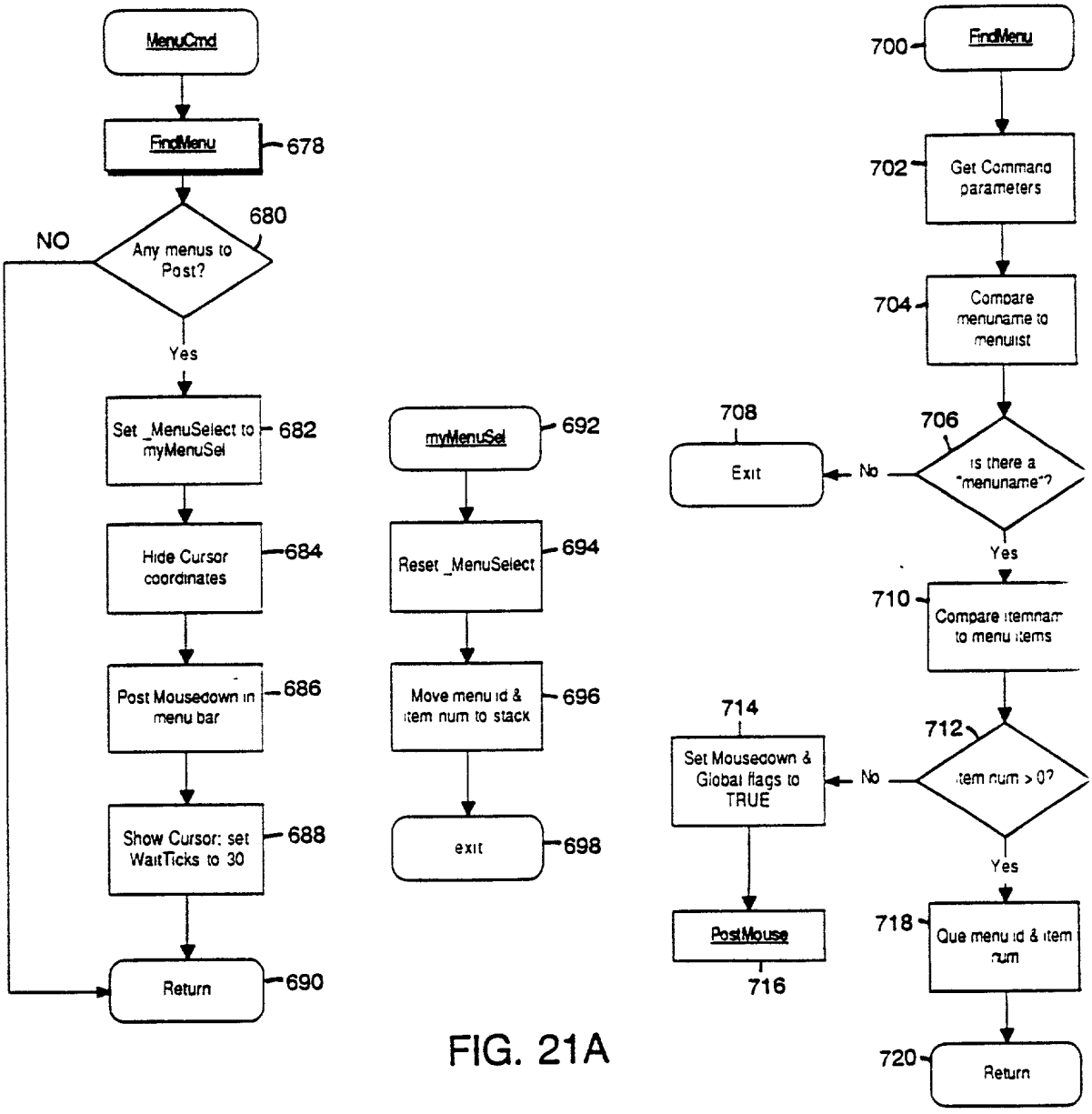

MenuCmd
FindMenu
678
680
NO
Any menus to Post?
Yes
Set _MenuSelect to myMenuSel
682
Hide Cursor coordinates
684
Post Mousedown in menu bar
686
Show Cursor: set WaitTicks to 30
688
Return
690
myMenuSel
692
Reset _MenuSelect
694
Move menu id & item num to stack
696
exit
698
700
FindMenu
702
Get Command parameters
704
Compare menuname to menulist
706
Is there a "menuname"?
No
708
Exit
Yes
710
Compare itemnam to menu items
712
item num > 0?
No
714
Set Mousedown & Global flags to TRUE
PostMouse
716
Yes
718
Que menu id & item num
720
Return

FIG. 21A

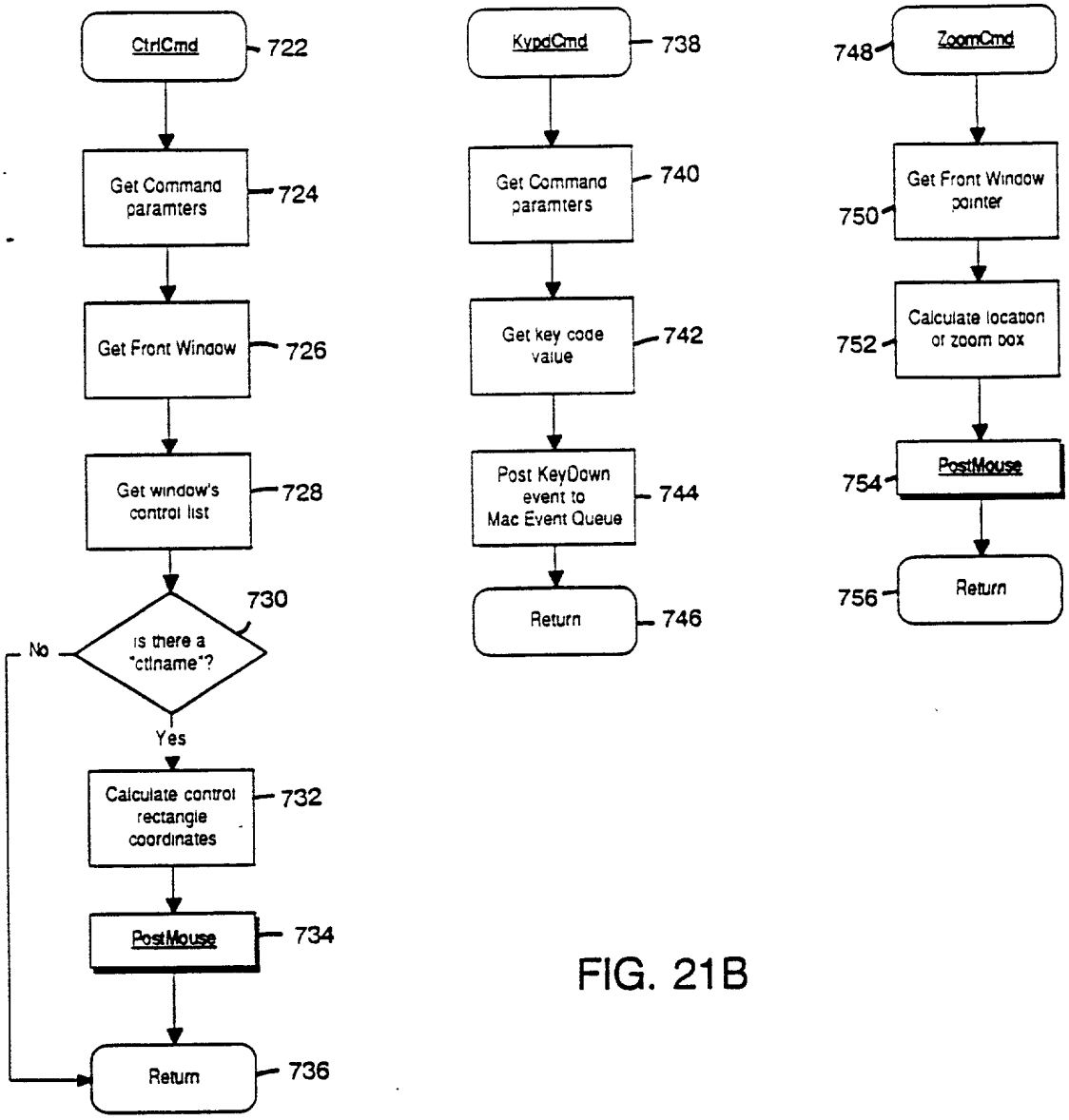

CtrlCmd
722
Get Command paramters
724
Get Front Window
726
Get window's control list
728
730
Is there a "ctlname"?
No
Yes
Calculate control rectangle coordinates
732
PostMouse
734
Return
736
KypdCmd
738
Get Command paramters
740
Get key code value
742
Post KeyDown event to Mac Event Queue
744
Return
746
748
ZoomCmd
Get Front Window pointer
750
Calculate location of zoom box
752
PostMouse
754
Return
756

FIG. 21B

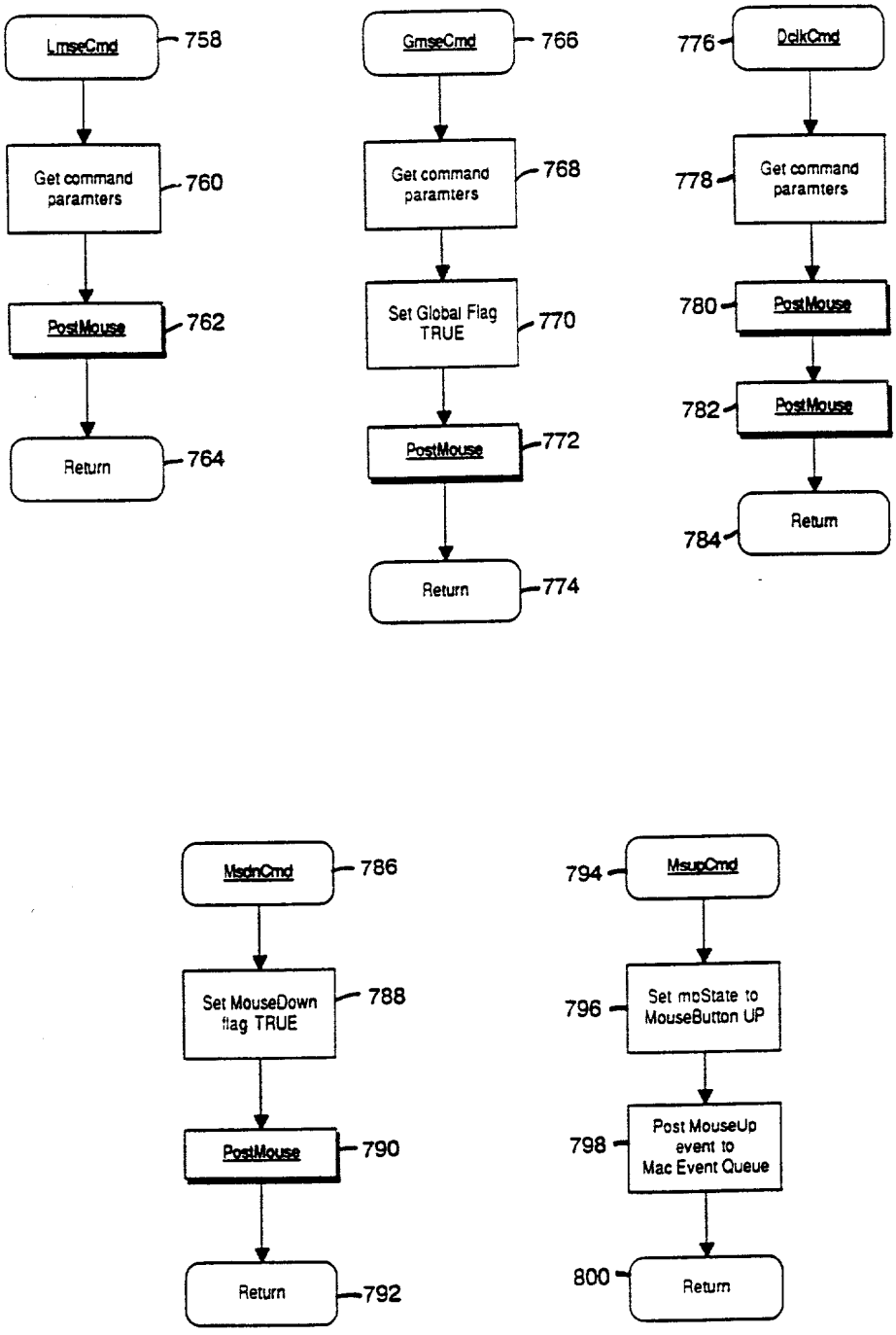

LmseCmd
758
Get command paramters
760
PostMouse
762
Return
764
GmseCmd
766
Get command paramters
768
Set Global Flag TRUE
770
PostMouse
772
Return
774
776
DclkCmd
Get command paramters
778
780
PostMouse
782
PostMouse
Return
784
MsdnCmd
786
Set MouseDown flag TRUE
788
PostMouse
790
Return
792
794
MsupCmd
Set mcState to MouseButton UP
796
Post MouseUp event to Mac Event Queue
798
800
Return

FIG. 21C

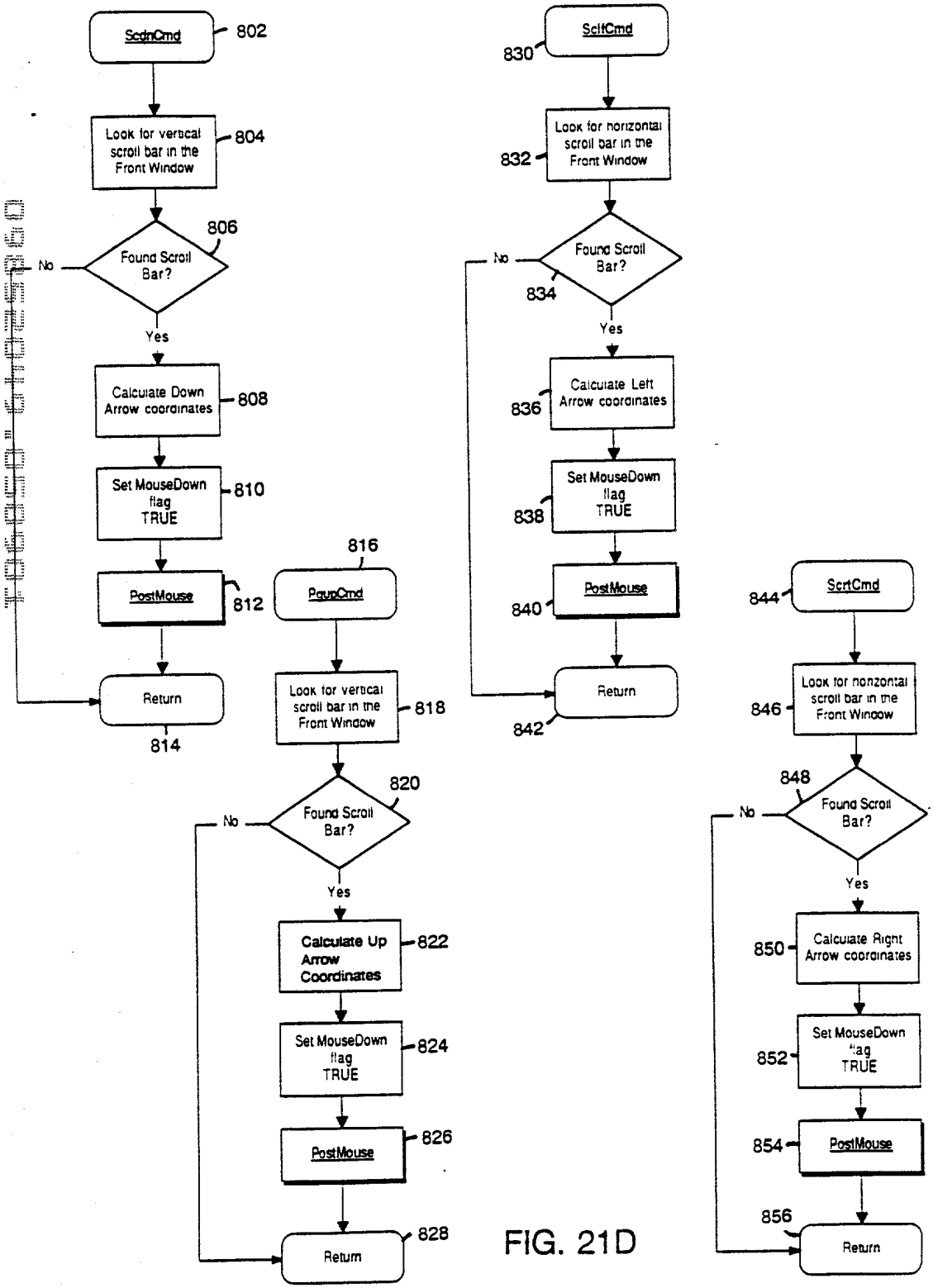

ScdnCmd
802
Look for vertical scroll bar in the Front Window
804
Found Scroll Bar?
806
No
Yes
Calculate Down Arrow coordinates
808
Set MouseDown flag TRUE
810
PostMouse
812
Return
814
PgupCmd
816
Look for vertical scroll bar in the Front Window
818
Found Scroll Bar?
820
No
Yes
Calculate Up Arrow Coordinates
822
Set MouseDown flag TRUE
824
PostMouse
826
Return
828
SclfCmd
830
Look for horizontal scroll bar in the Front Window
832
Found Scroll Bar?
834
No
Yes
Calculate Left Arrow coordinates
836
Set MouseDown flag TRUE
838
PostMouse
840
Return
842
ScrtCmd
844
Look for horizontal scroll bar in the Front Window
846
Found Scroll Bar?
848
No
Yes
Calculate Right Arrow coordinates
850
Set MouseDown flag TRUE
852
PostMouse
854
Return
856

FIG. 21D

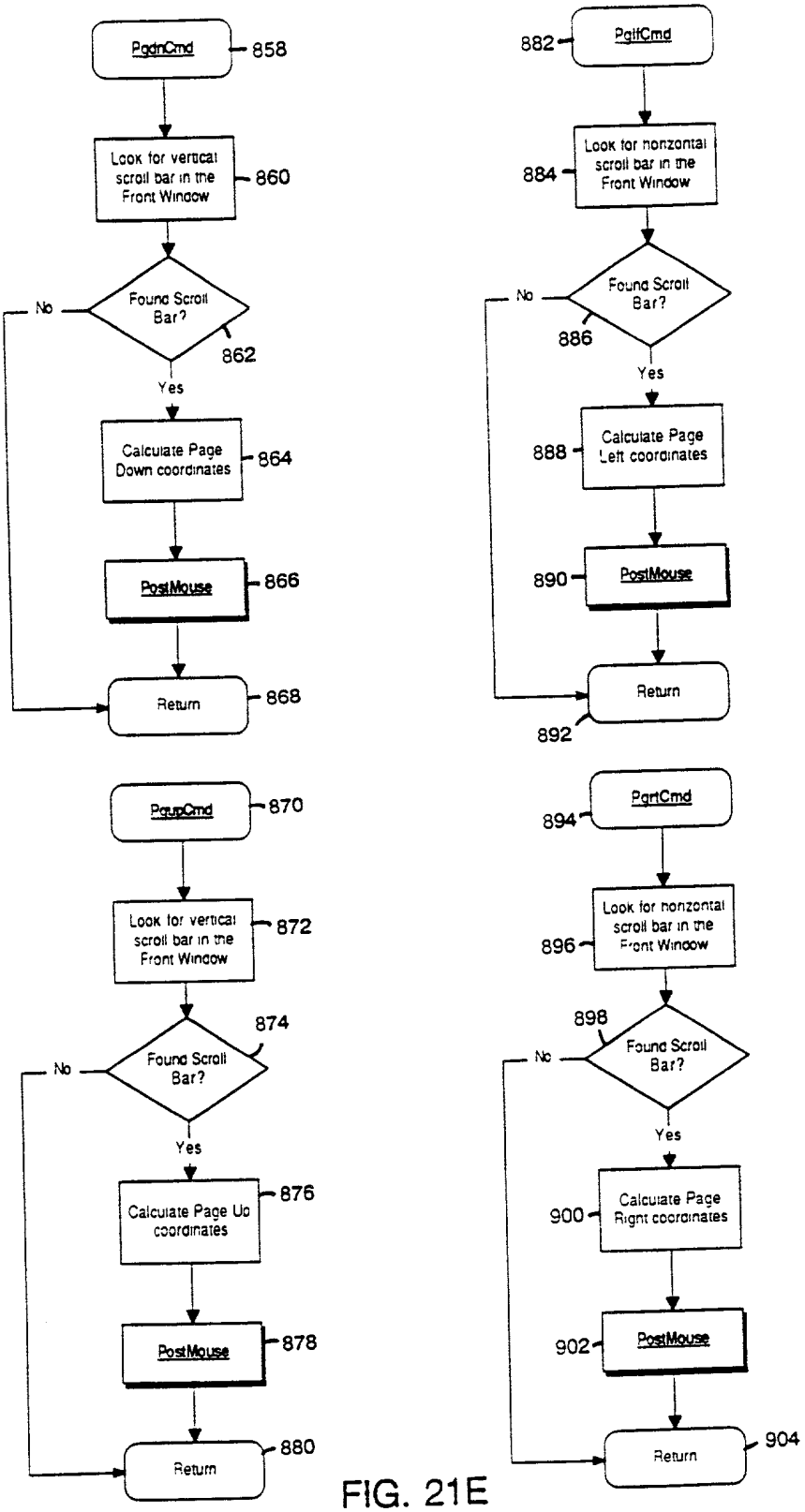

PgdnCmd
858
Look for vertical scroll bar in the Front Window
860
Found Scroll Bar?
862
No
Yes
Calculate Page Down coordinates
864
PostMouse
866
Return
868
PgupCmd
870
Look for vertical scroll bar in the Front Window
872
Found Scroll Bar?
874
No
Yes
Calculate Page Up coordinates
876
PostMouse
878
Return
880
PgltCmd
882
Look for horizontal scroll bar in the Front Window
884
Found Scroll Bar?
886
No
Yes
Calculate Page Left coordinates
888
PostMouse
890
Return
892
PgrtCmd
894
Look for horizontal scroll bar in the Front Window
896
Found Scroll Bar?
898
No
Yes
Calculate Page Right coordinates
900
PostMouse
902
Return
904

FIG. 21E

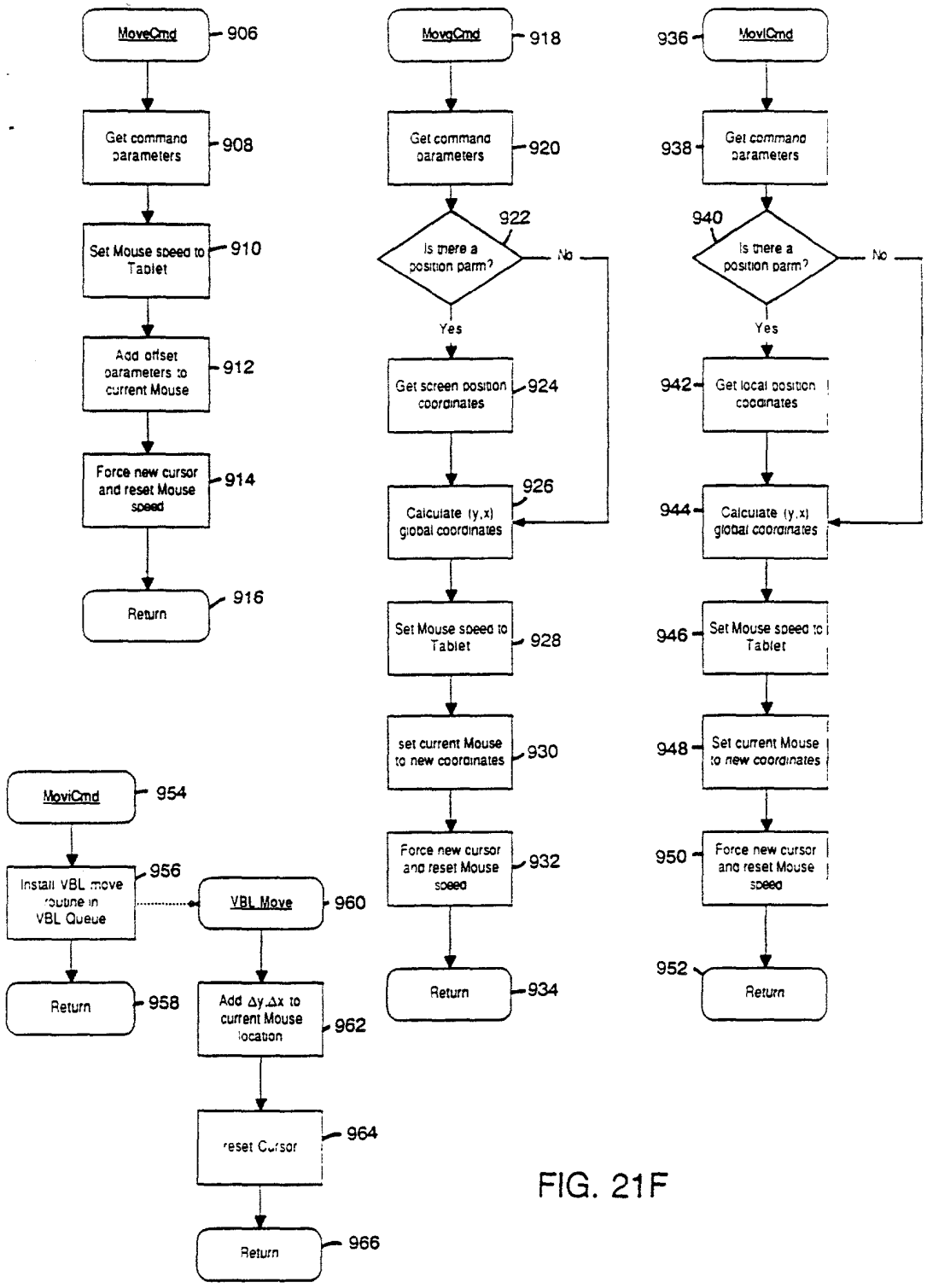

MoveCmd
906
Get command parameters
908
Set Mouse speed to Tablet
910
Add offset parameters to current Mouse
912
Force new cursor and reset Mouse speed
914
Return
916
MovgCmd
918
Get command parameters
920
Is there a position parm?
922
No
Yes
Get screen position coordinates
924
Calculate (y,x) global coordinates
926
Set Mouse speed to Tablet
928
set current Mouse to new coordinates
930
Force new cursor and reset Mouse speed
932
Return
934
936
MovlCmd
938
Get command parameters
940
Is there a position parm?
No
Yes
942
Get local position coordinates
944
Calculate (y,x) global coordinates
946
Set Mouse speed to Tablet
948
Set current Mouse to new coordinates
950
Force new cursor and reset Mouse speed
952
Return
MoviCmd
954
Install VBL move routine in VBL Queue
956
Return
958
VBL Move
960
Add Δy,Δx to current Mouse location
962
reset Cursor
964
Return
966

FIG. 21F

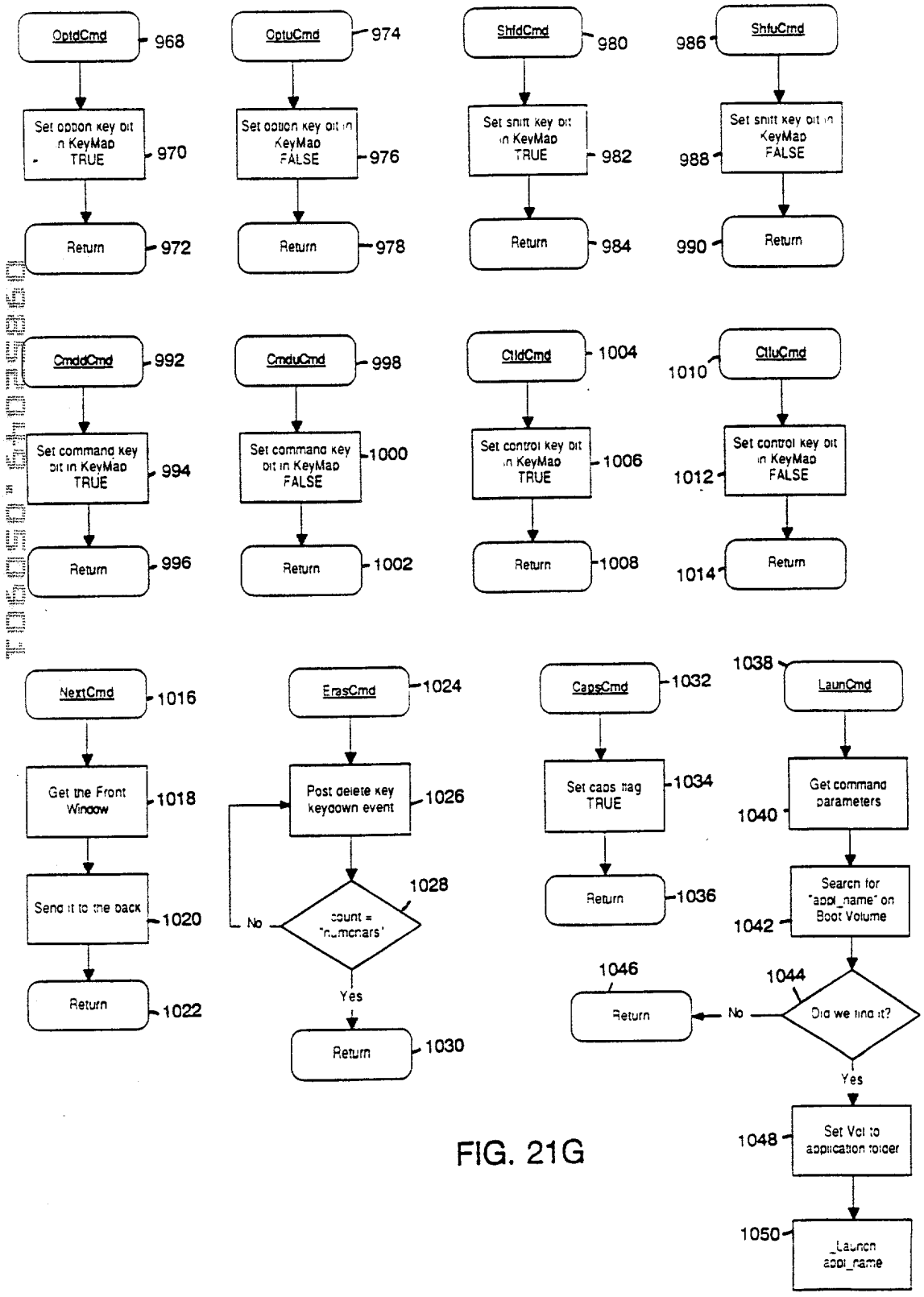

OptdCmd
968
Set option key bit in KeyMap TRUE
970
Return
972
OptuCmd
974
Set option key bit in KeyMap FALSE
976
Return
978
ShftCmd
980
Set shift key bit in KeyMap TRUE
982
Return
984
ShftuCmd
986
Set shift key bit in KeyMap FALSE
988
Return
990
CmddCmd
992
Set command key bit in KeyMap TRUE
994
Return
996
CmduCmd
998
Set command key bit in KeyMap FALSE
1000
Return
1002
CtlDCmd
1004
Set control key bit in KeyMap TRUE
1006
Return
1008
CtluCmd
1010
Set control key bit in KeyMap FALSE
1012
Return
1014
NextCmd
1016
Get the Front Window
1018
Send it to the back
1020
Return
1022
ErasCmd
1024
Post delete key keydown event
1026
count = "numchars"
1028
No
Yes
Return
1030
CapsCmd
1032
Set caps flag TRUE
1034
Return
1036
LaunCmd
1038
Get command parameters
1040
Search for "appl_name" on Boot Volume
1042
Did we find it?
1044
No
1046
Return
Yes
Set Vol to application folder
1048
_Launch appl_name
1050

FIG. 21G

Serial No. 08/505,703 - Docket No. 7590-0

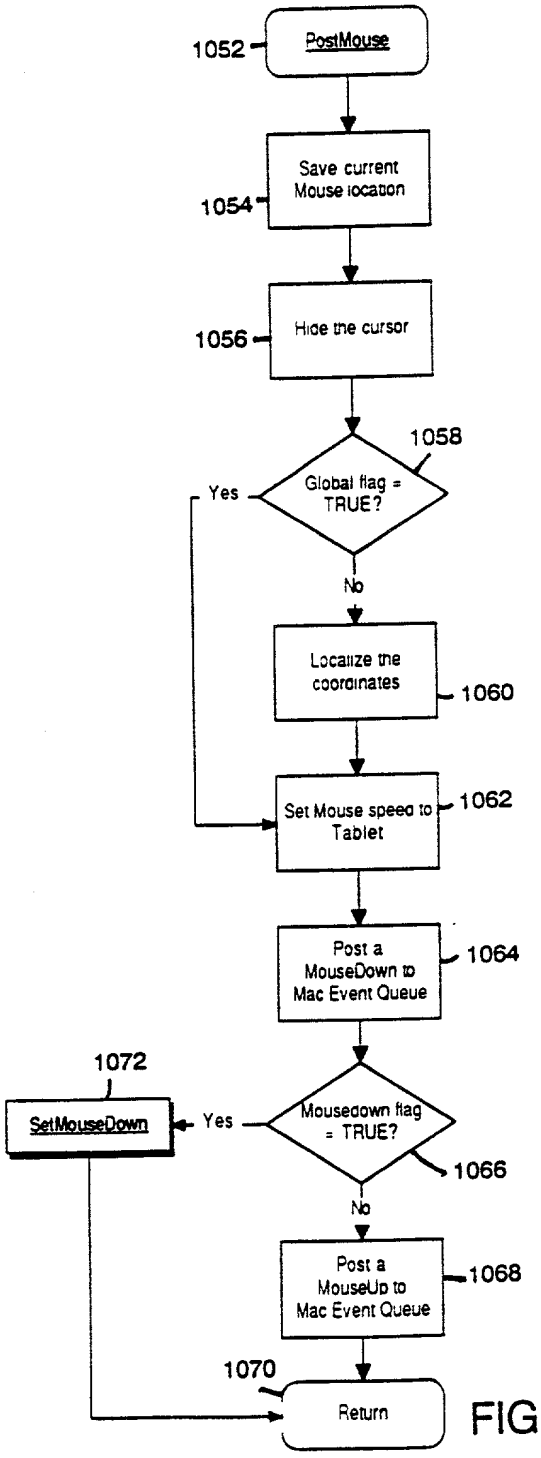


FIG. 22

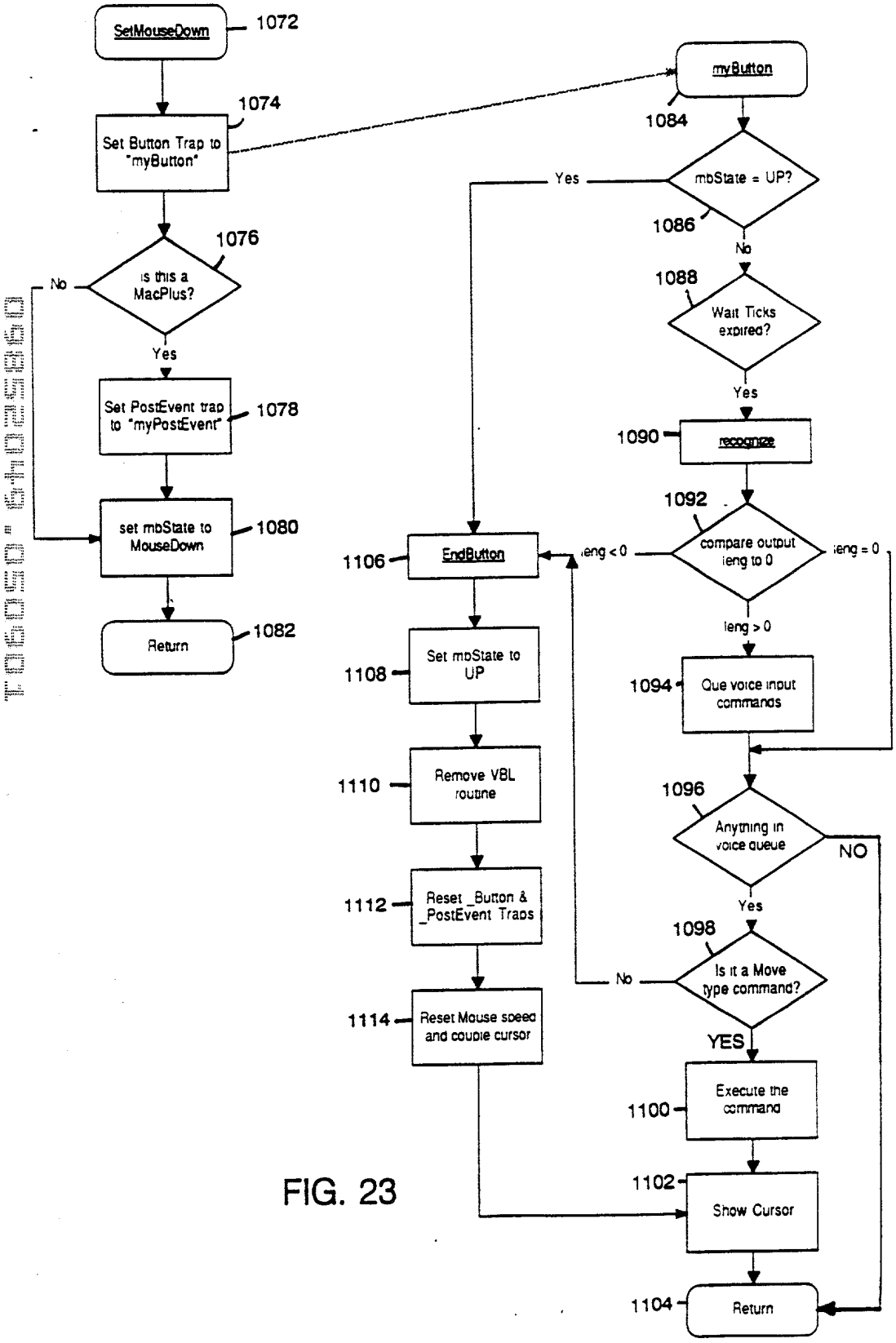

SetMouseDown
1072
Set Button Trap to "myButton"
1074
is this a MacPlus?
1076
No
Yes
Set PostEvent trap to "myPostEvent"
1078
set mbState to MouseDown
1080
Return
1082
myButton
1084
mbState = UP?
Yes
1086
No
Wait Ticks expired?
1088
Yes
recognize
1090
compare output ieng to 0
1092
ieng < 0
ieng = 0
ieng > 0
Que voice input commands
1094
Anything in voice queue
1096
NO
Yes
Is it a Move type command?
1098
No
YES
Execute the command
1100
Show Cursor
1102
Return
1104
EndButton
1106
Set mbState to UP
1108
Remove VBL routine
1110
Reset _Button & _PostEvent Traps
1112
Reset Mouse speed and couple cursor
1114

FIG. 23

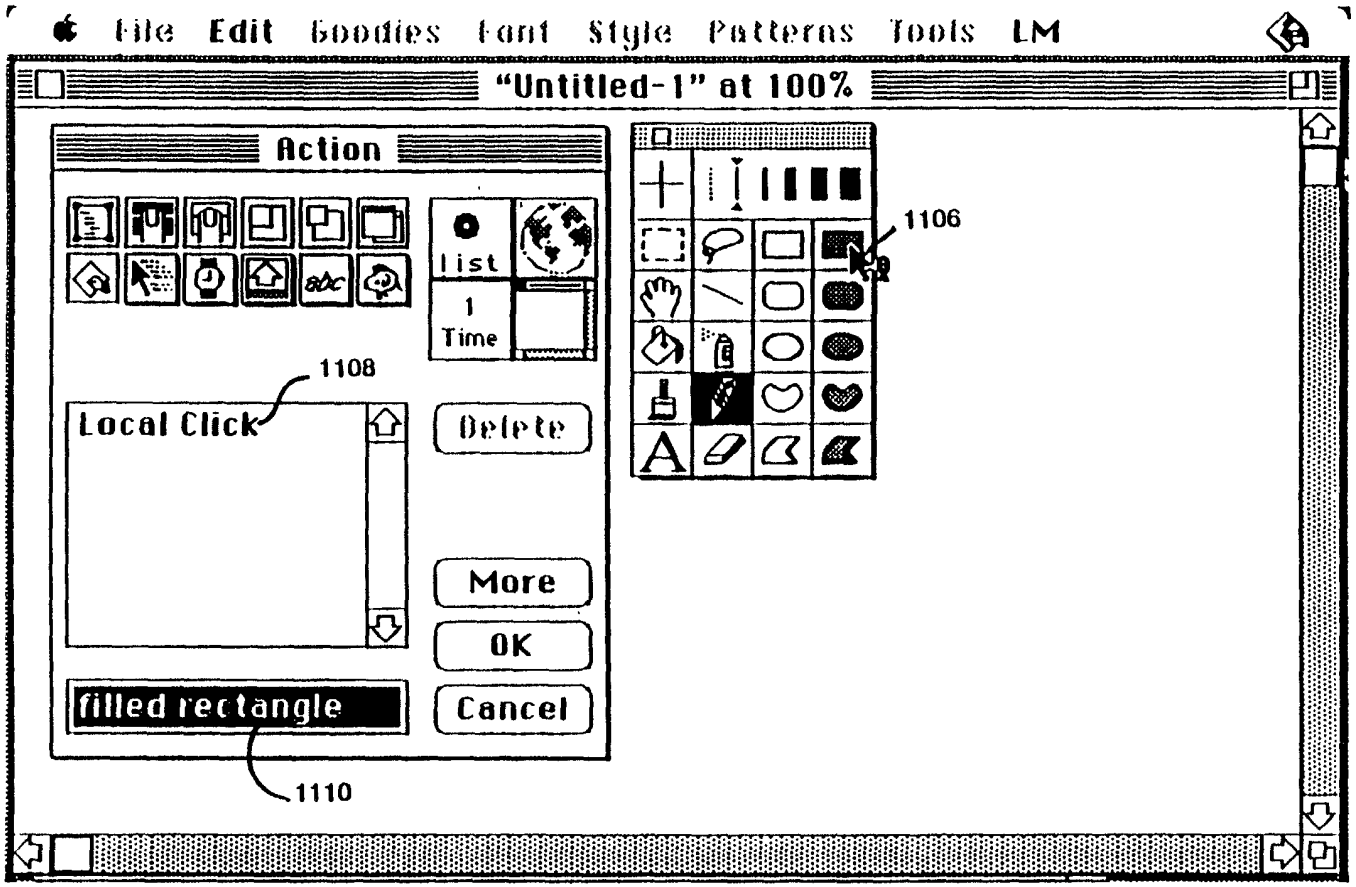

File Edit Goodies Font Style Patterns Tools LM
"Untitled-1" at 100%
Action
List
1 Time
1108
Local Click
Delete
More
OK
Cancel
filled rectangle
1110
1106

FIG. 24

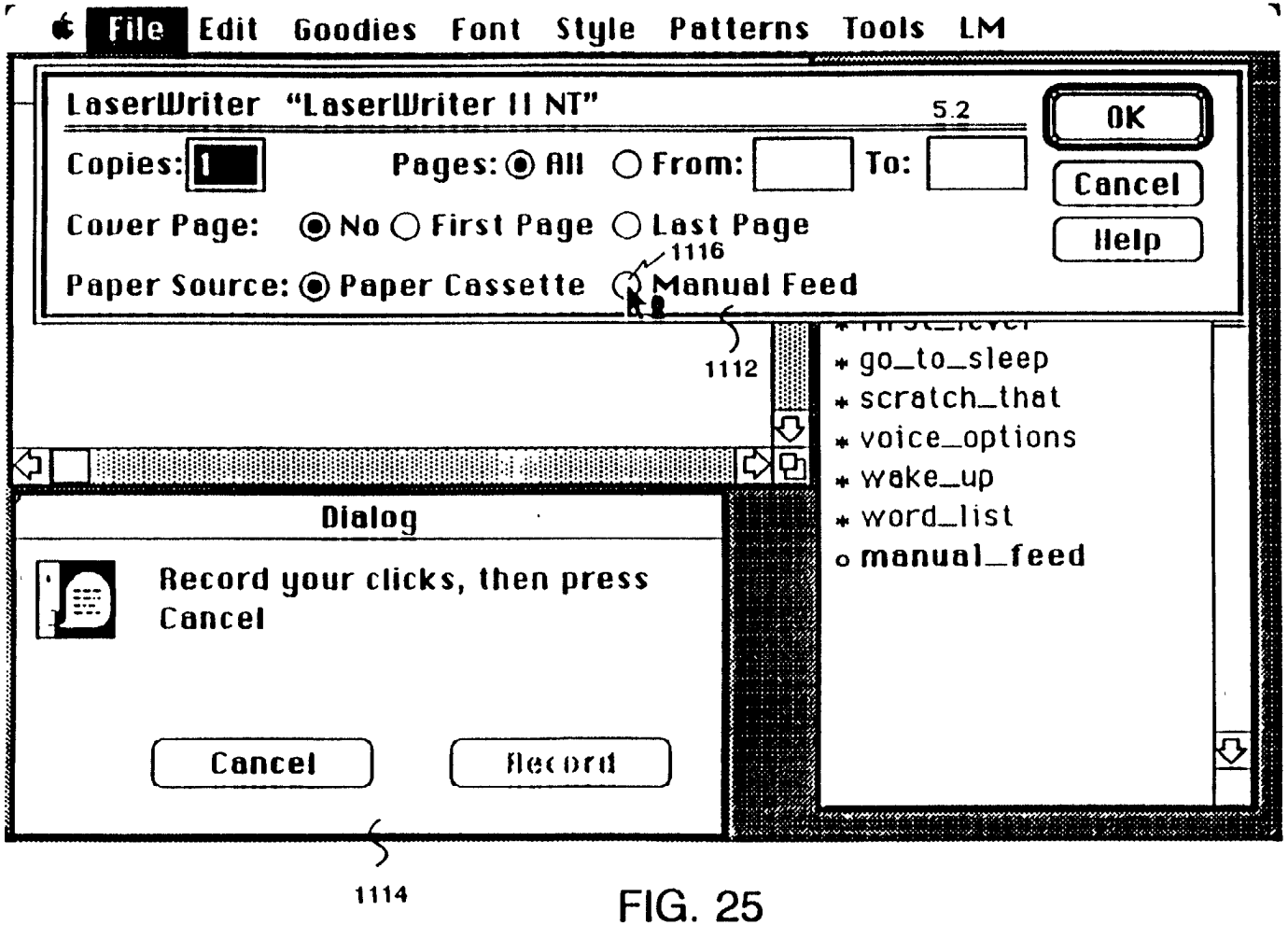

File Edit Goodies Font Style Patterns Tools LM
LaserWriter "LaserWriter II NT"
5.2
OK
Copies: 1
Pages: All From: To:
Cancel
Cover Page: No First Page Last Page
Help
1116
Paper Source: Paper Cassette Manual Feed
1112
go_to_sleep
scratch_that
voice_options
wake_up
word_list
manual_feed
Dialog
Record your clicks, then press Cancel
Cancel
Record
1114

FIG. 25

T06050 "6h02S960

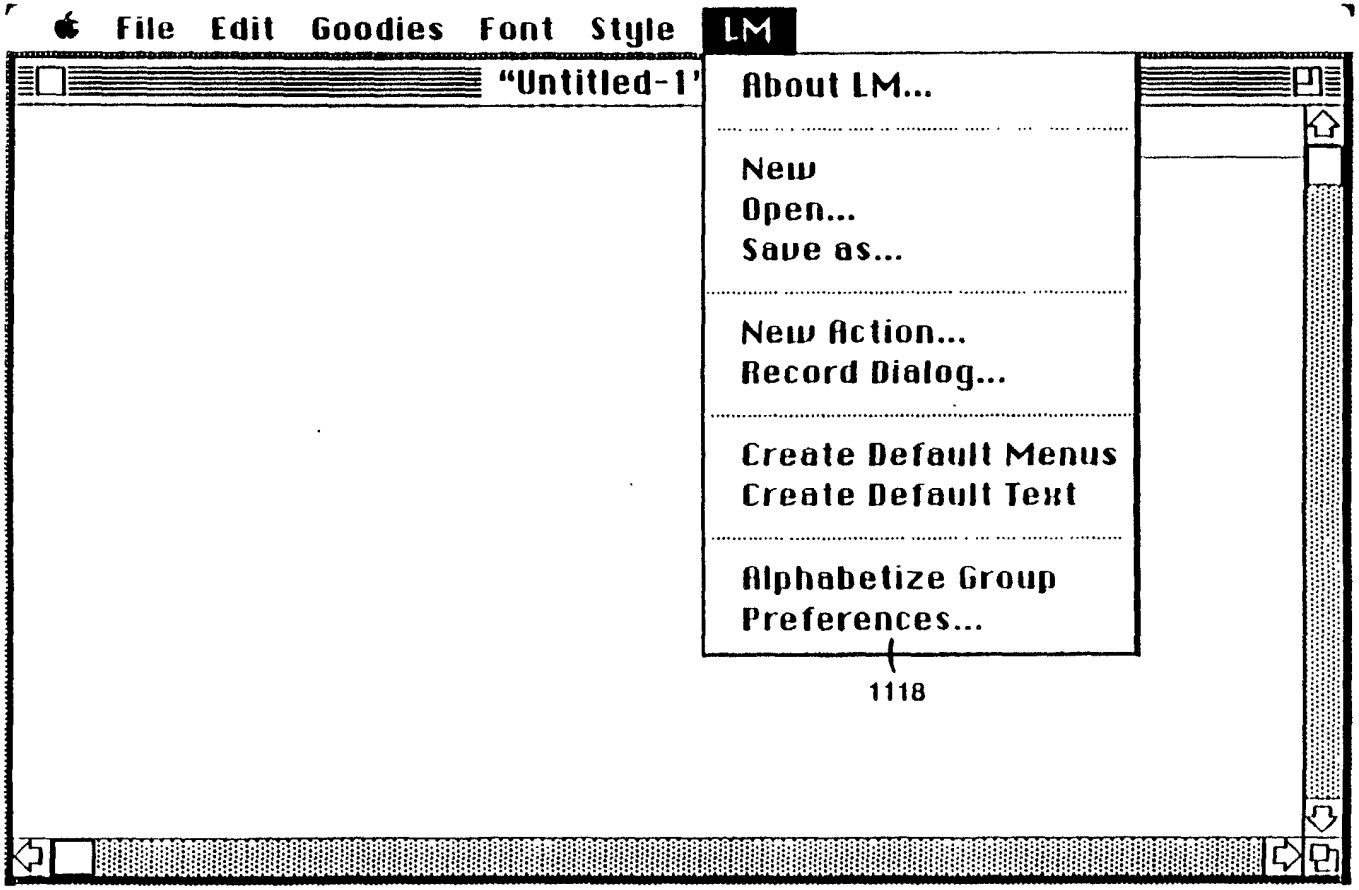


FIG. 26

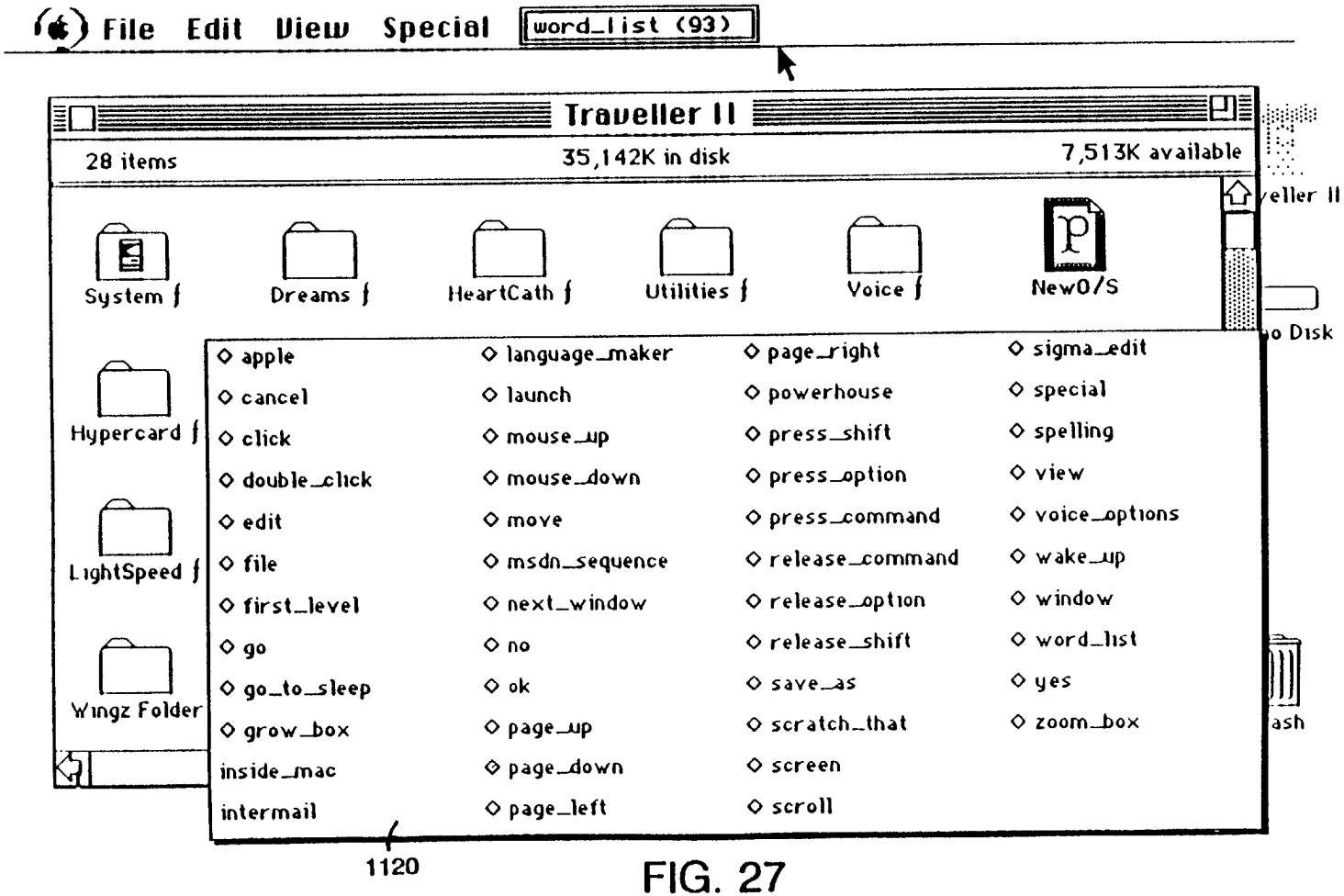

File Edit View Special
word_list (93)
Traveller II
28 items
35,142K in disk
7,513K available
System
Dreams
HeartCath
Utilities
Voice
NewO/S
Hypercard
LightSpeed
Wingz Folder
apple
cancel
click
double_click
edit
file
first_level
go
go_to_sleep
grow_box
inside_mac
intermail
language_maker
launch
mouse_up
mouse_down
move
msdn_sequence
next_window
no
ok
page_up
page_down
page_left
page_right
powerhouse
press_shift
press_option
press_command
release_command
release_option
release_shift
save_as
scratch_that
screen
scroll
sigma_edit
special
spelling
view
voice_options
wake_up
window
word_list
yes
zoom_box
1120

FIG. 27

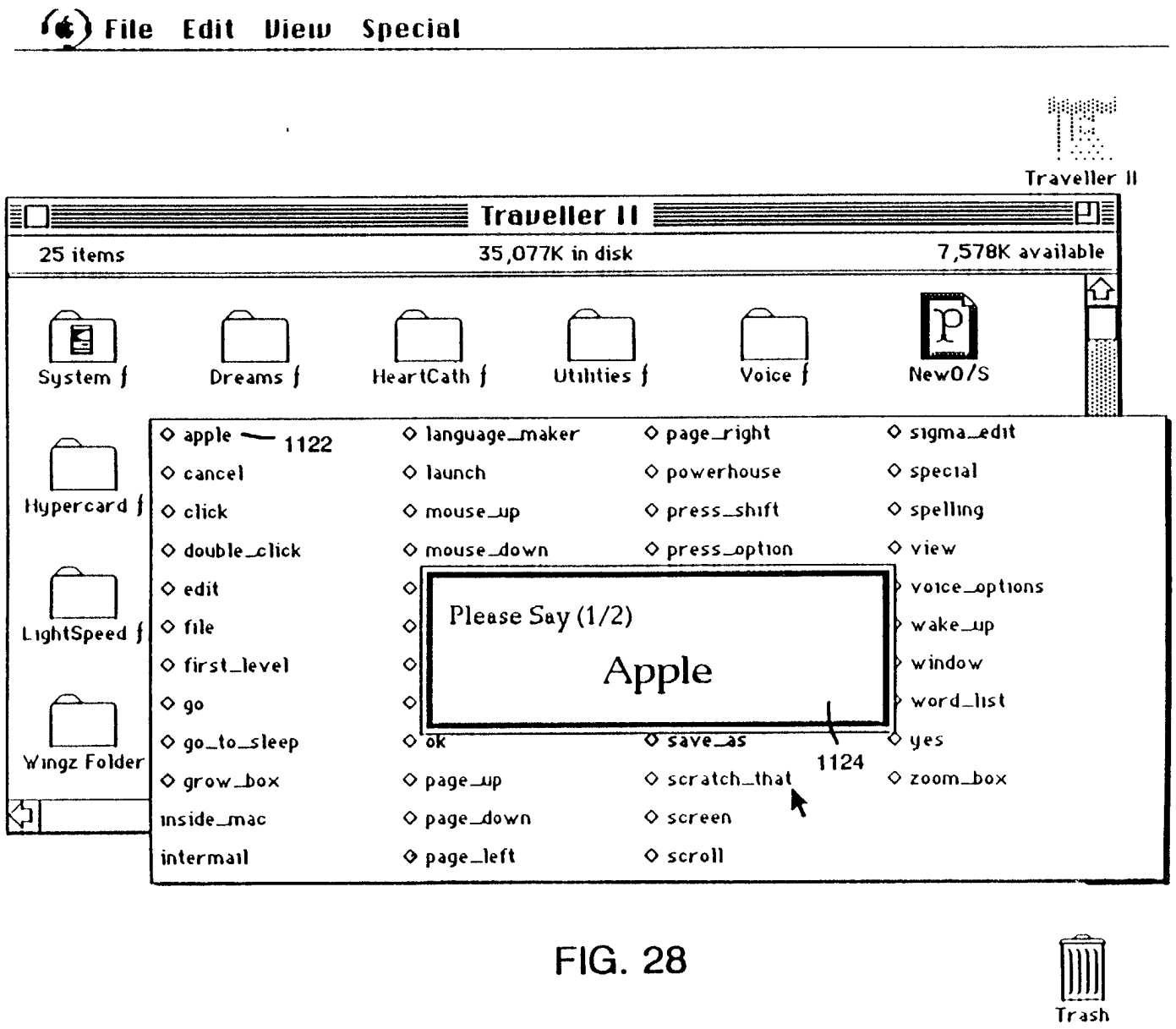

File Edit View Special
Traveller II
Traveller II
25 items
35,077K in disk
7,578K available
System
Dreams
HeartCath
Utilities
Voice
NewO/S
Hypercard
LightSpeed
Wingz Folder
apple
1122
cancel
click
double_click
edit
file
first_level
go
go_to_sleep
grow_box
inside_mac
intermail
language_maker
launch
mouse_up
mouse_down
ok
page_up
page_down
page_left
page_right
powerhouse
press_shift
press_option
save_as
scratch_that
screen
scroll
sigma_edit
special
spelling
view
voice_options
wake_up
window
word_list
yes
zoom_box
Please Say (1/2)
Apple
1124
Trash

FIG. 28

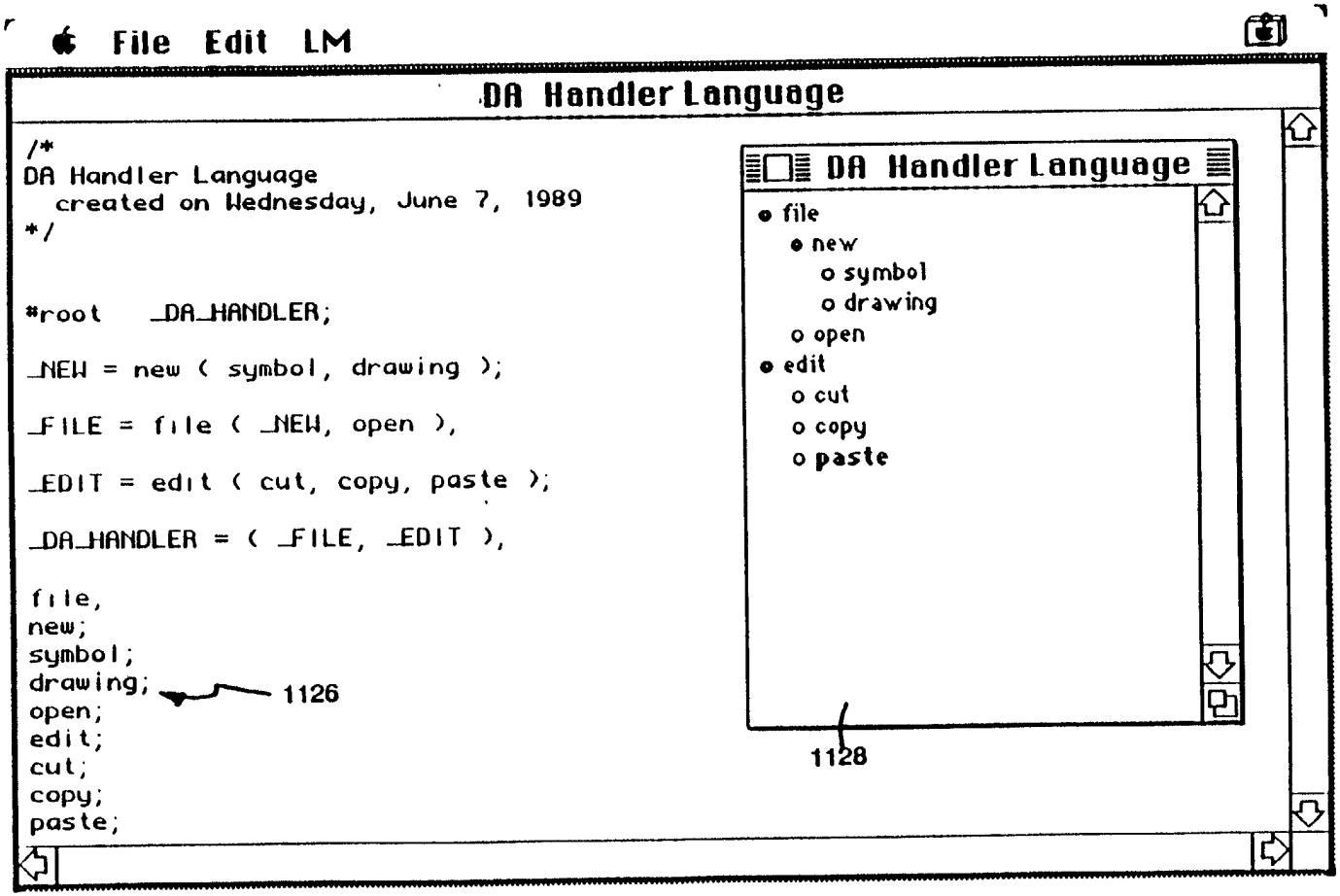

File Edit LM
DA Handler Language
/*
DA Handler Language
created on Wednesday, June 7, 1989
*/
*root _DA_HANDLER;
_NEW = new (symbol, drawing);
_FILE = file (_NEW, open),
_EDIT = edit (cut, copy, paste);
_DA_HANDLER = (_FILE, _EDIT),
file,
new;
symbol;
drawing;
open;
edit;
cut;
copy;
paste;
1126
DA Handler Language
file
new
symbol
drawing
open
edit
cut
copy
paste
1128

FIG. 29

DA Handler Language
Wednesday, June 7, 1989 4:54 PM

```
/*
DA Handler Language
  created on Wednesday, June 7, 1989
*/


#root   _DA_HANDLER;

_NEW = new ( symbol, drawing );

_FILE = file ( _NEW, open );

_EDIT = edit ( cut, copy, paste );

_DA_HANDLER = ( _FILE, _EDIT );

file;
new;
symbol;
drawing;
open;
edit;
cut;
copy;
paste;
```

FIG. 30

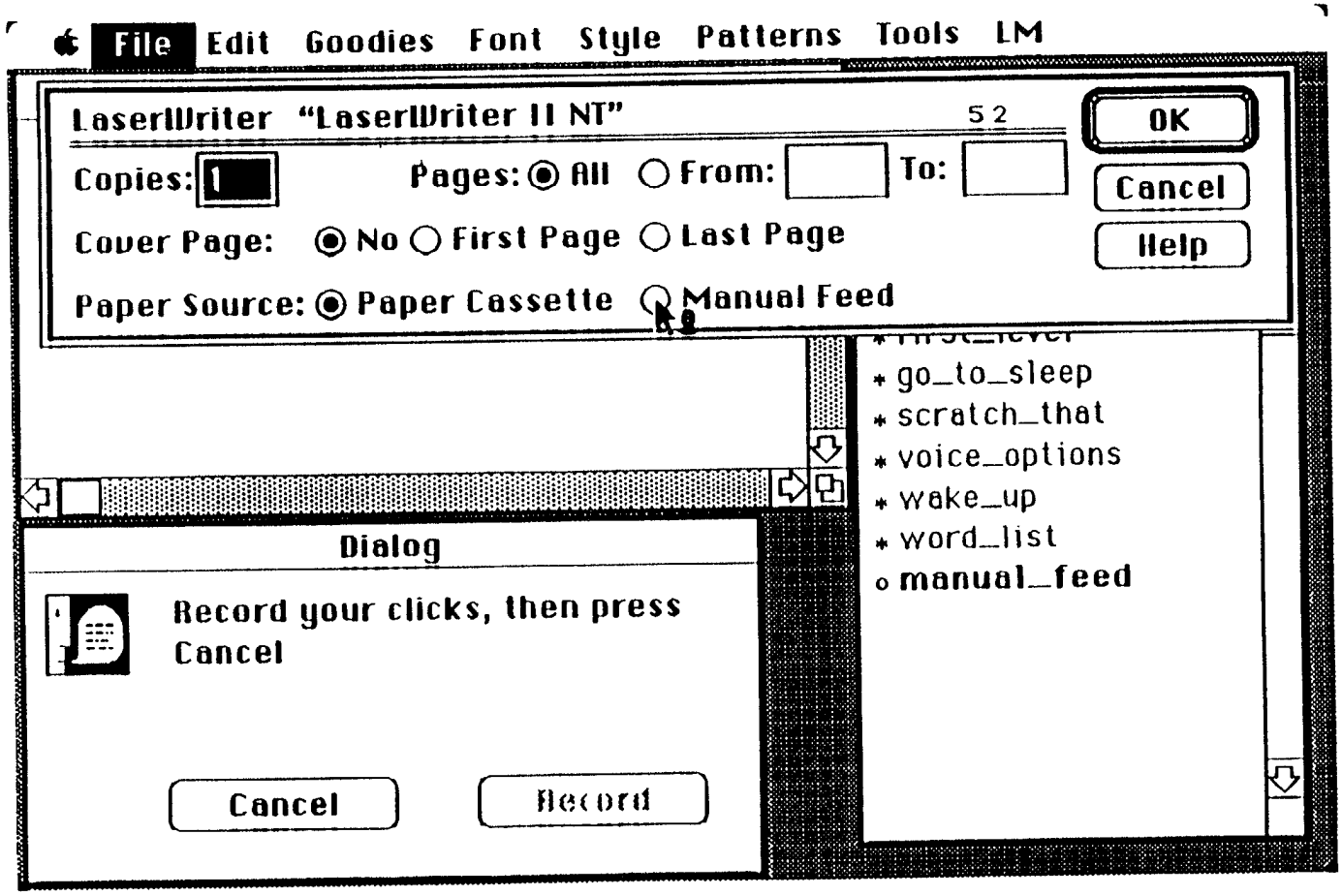

File
Edit
Goodies
Font
Style
Patterns
Tools
LM
LaserWriter "LaserWriter II NT"
52
OK
Copies: 1
Pages: All From: To:
Cancel
Cover Page: No First Page Last Page
Help
Paper Source: Paper Cassette Manual Feed
go_to_sleep
scratch_that
voice_options
wake_up
word_list
manual_feed
Dialog
Record your clicks, then press Cancel
Cancel
Record

FIG. 31

The Voice Navigator with a Mac SE or Mac Plus

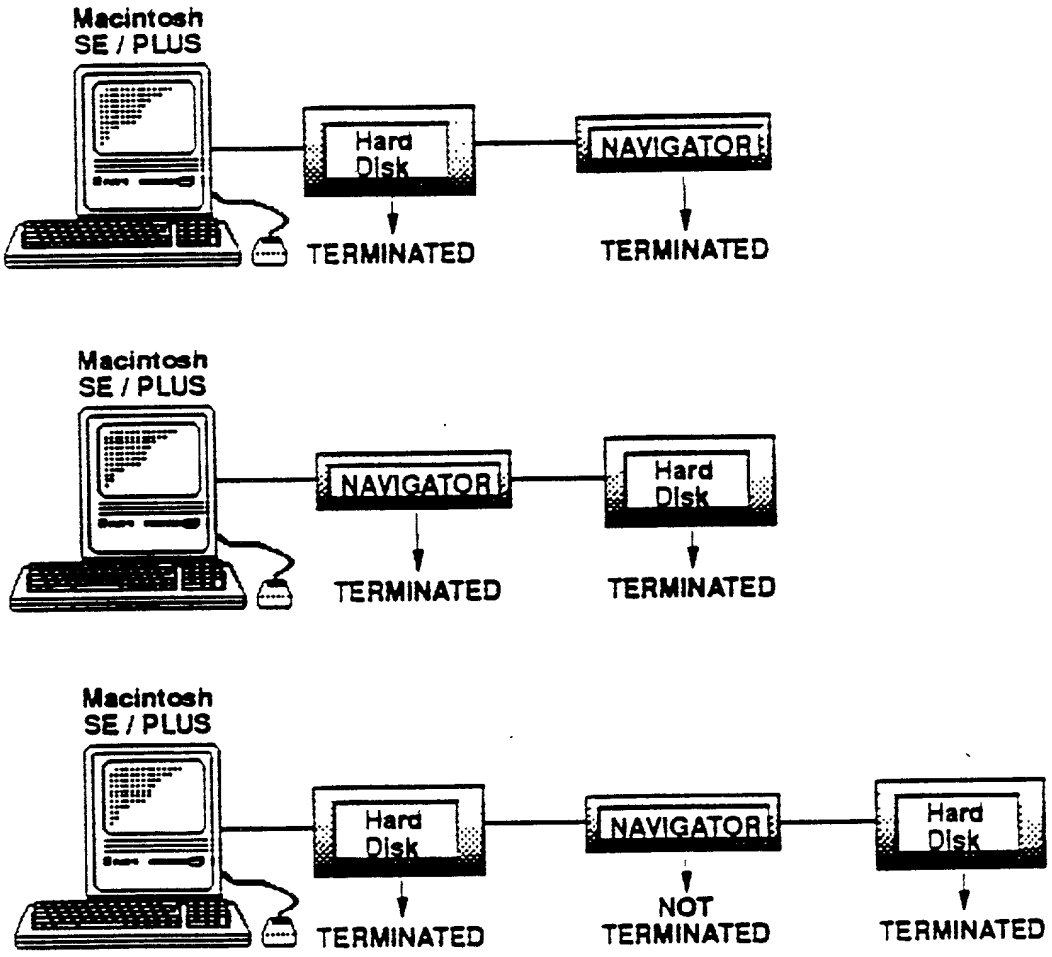


FIGURE 32

PROPRIETARY - SONICBLUE

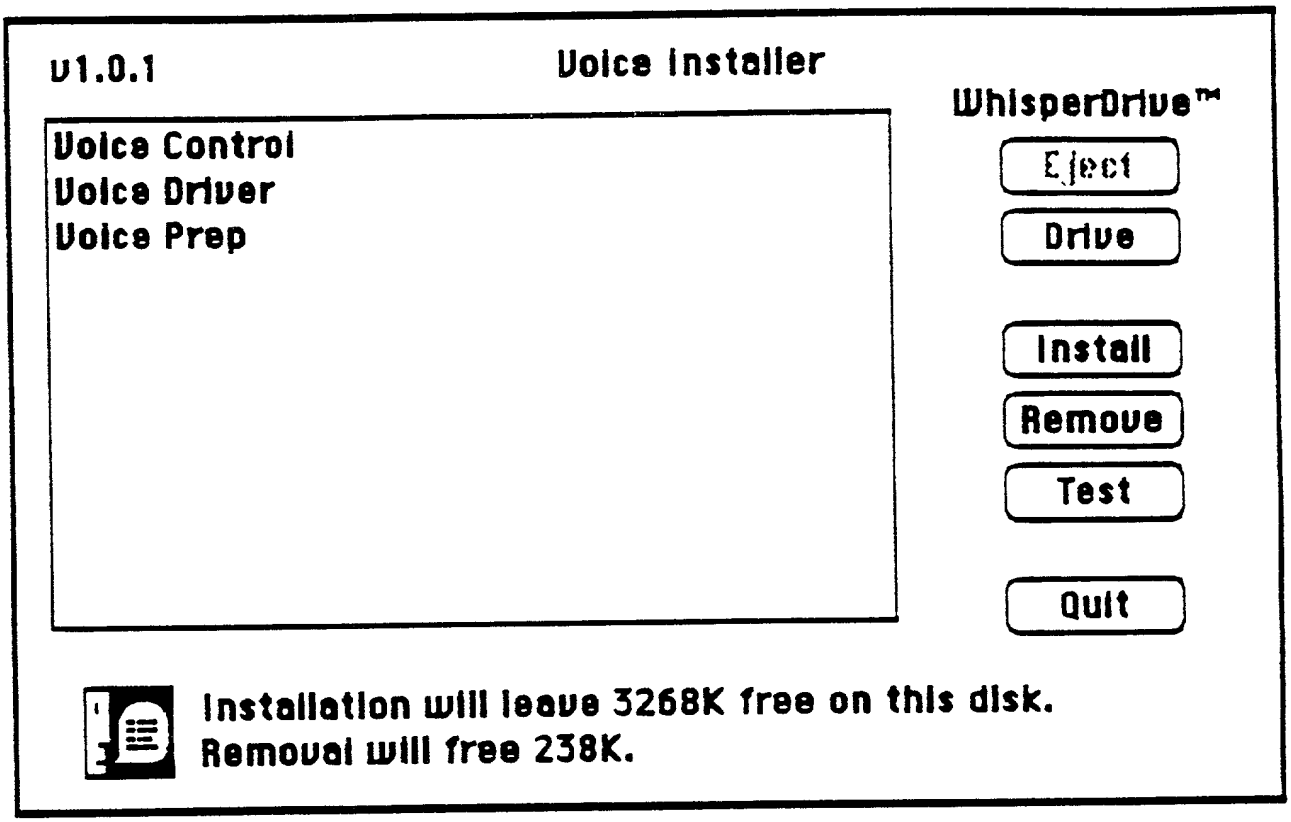


FIGURE 33

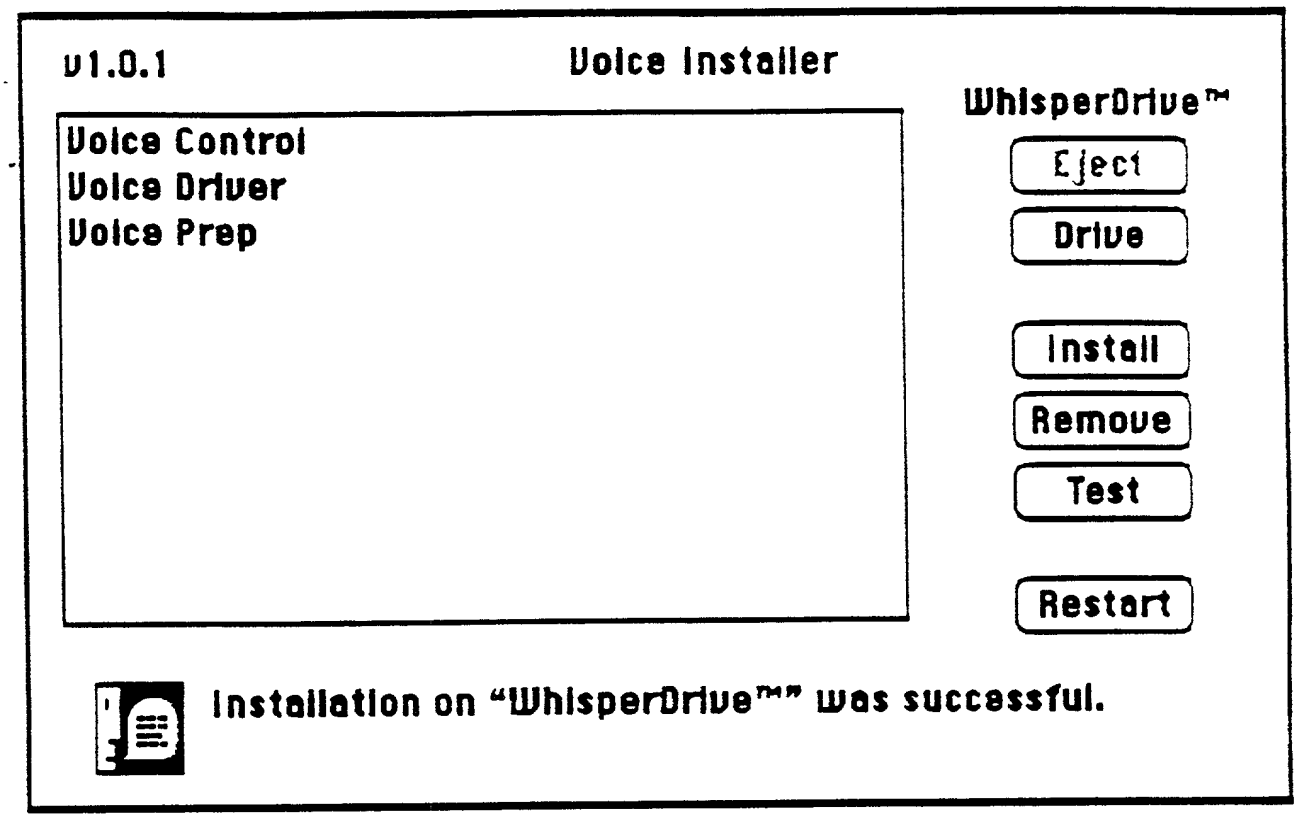

v1.0.1
Voice Installer
WhisperDrive™
Voice Control
Voice Driver
Voice Prep
Eject
Drive
Install
Remove
Test
Restart
Installation on "WhisperDrive™" was successful.

FIGURE 34

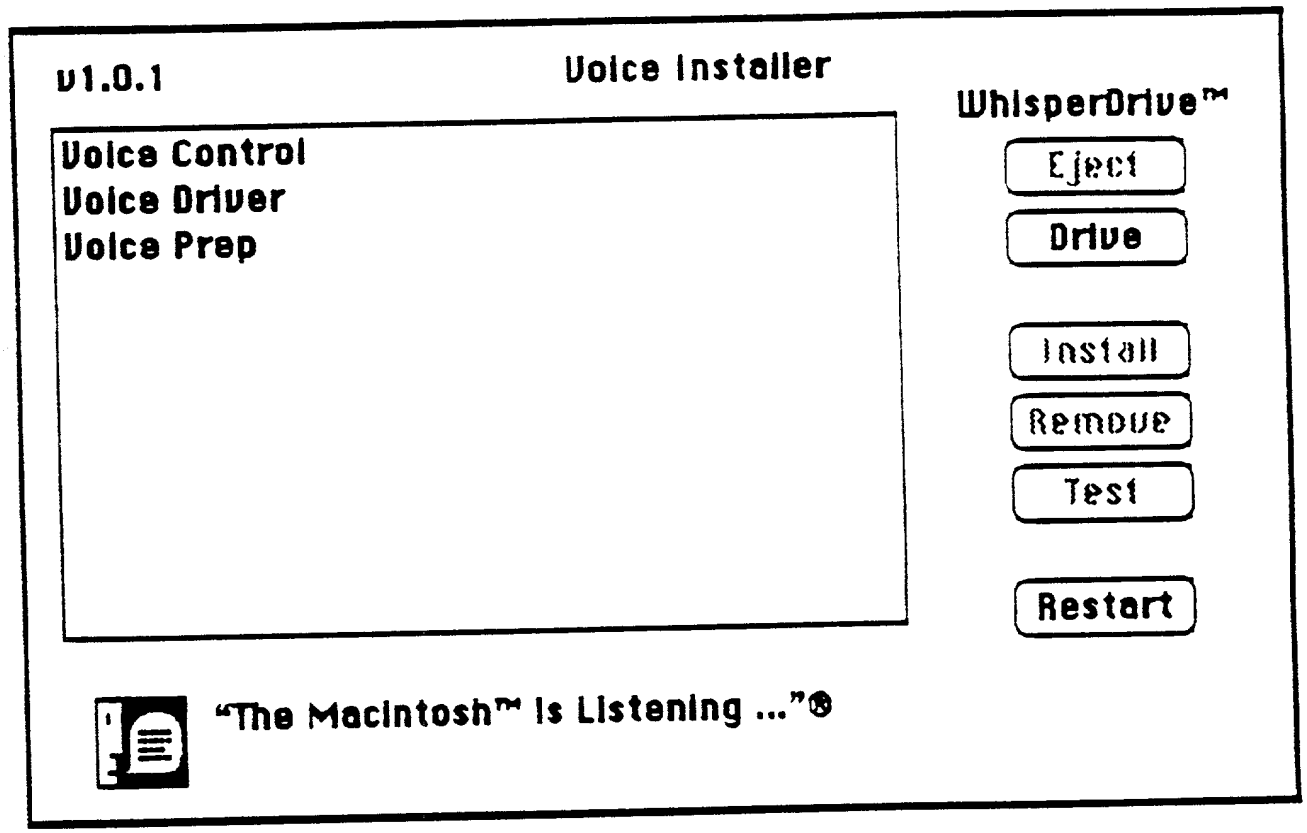

v1.0.1
Voice Installer
WhisperDrive™
Voice Control
Voice Driver
Voice Prep
Eject
Drive
Install
Remove
Test
Restart
"The Macintosh™ is Listening ..."®

FIGURE 35

Patent Application Serial No. 08/320,138

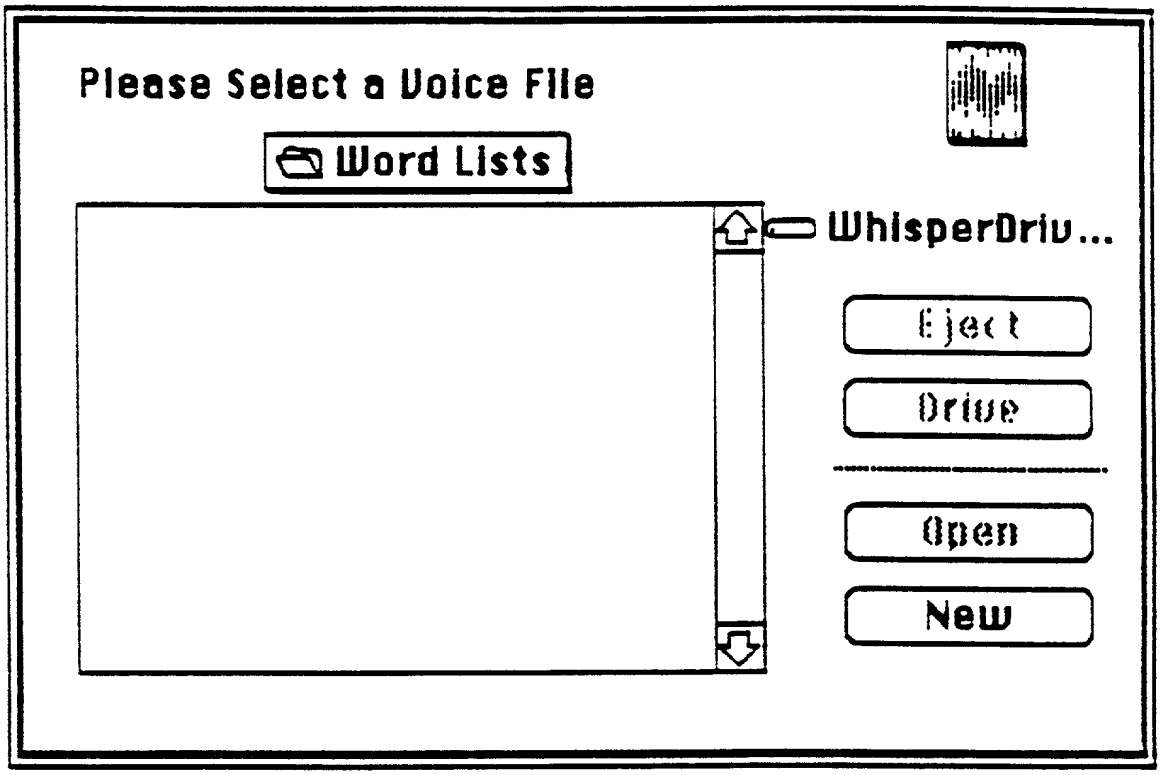


FIGURE 36

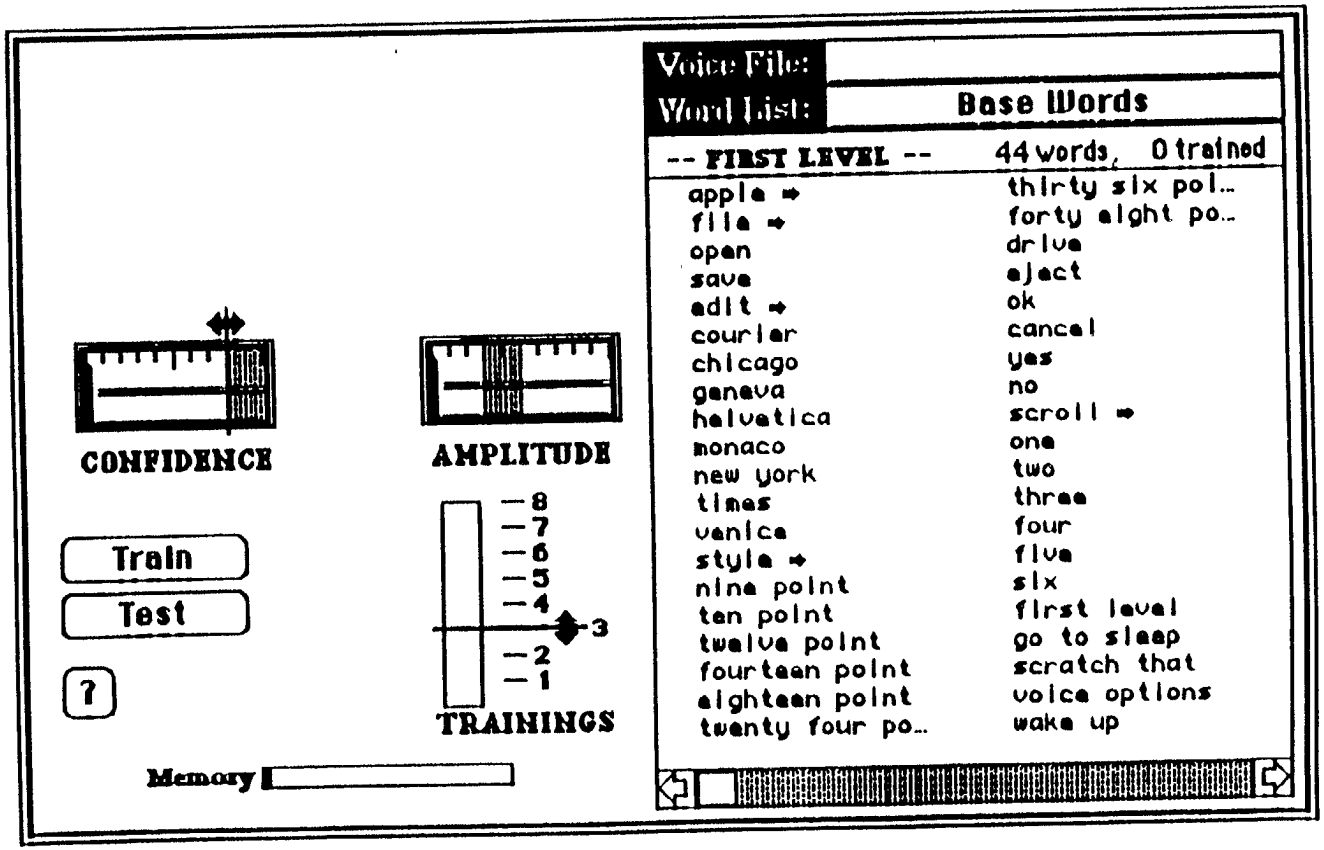

Voice File:
Word List:
Base Words
-- FIRST LEVEL --
44 words, 0 trained
apple ➡
file ➡
open
save
edit ➡
courier
chicago
geneva
helvetica
monaco
new york
times
venice
style ➡
nine point
ten point
twelve point
fourteen point
eighteen point
twenty four po...
thirty six poi...
forty eight po...
drive
eject
ok
cancel
yes
no
scroll ➡
one
two
three
four
five
six
first level
go to sleep
scratch that
voice options
wake up
CONFIDENCE
AMPLITUDE
8
7
6
5
4
3
2
1
TRAININGS
Train
Test
?
Memory

FIGURE 37

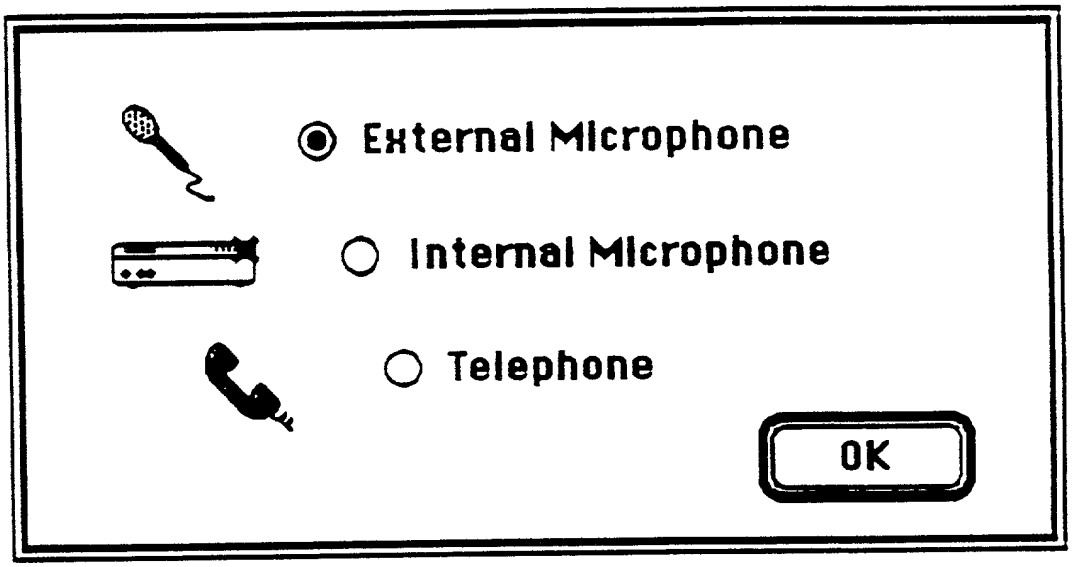


FIGURE 38

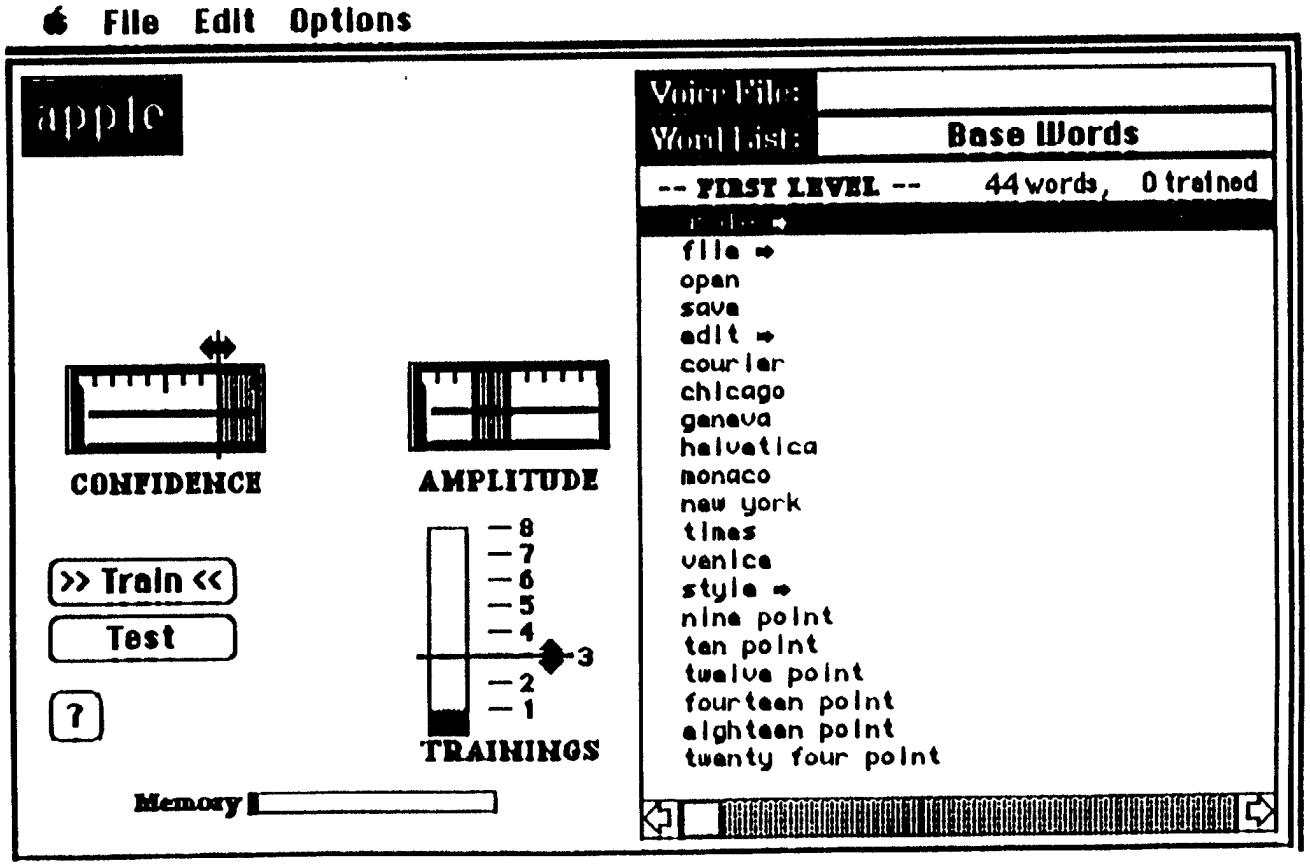

File Edit Options
apple
Voice File:
Word List:
Base Words
-- FIRST LEVEL --
44 words, 0 trained
file ➡
open
save
edit ➡
courier
chicago
geneva
helvetica
monaco
new york
times
venice
style ➡
nine point
ten point
twelve point
fourteen point
eighteen point
twenty four point
CONFIDENCE
AMPLITUDE
8
7
6
5
4
3
2
1
TRAININGS
>> Train <<
Test
?
Memory

FIGURE 39

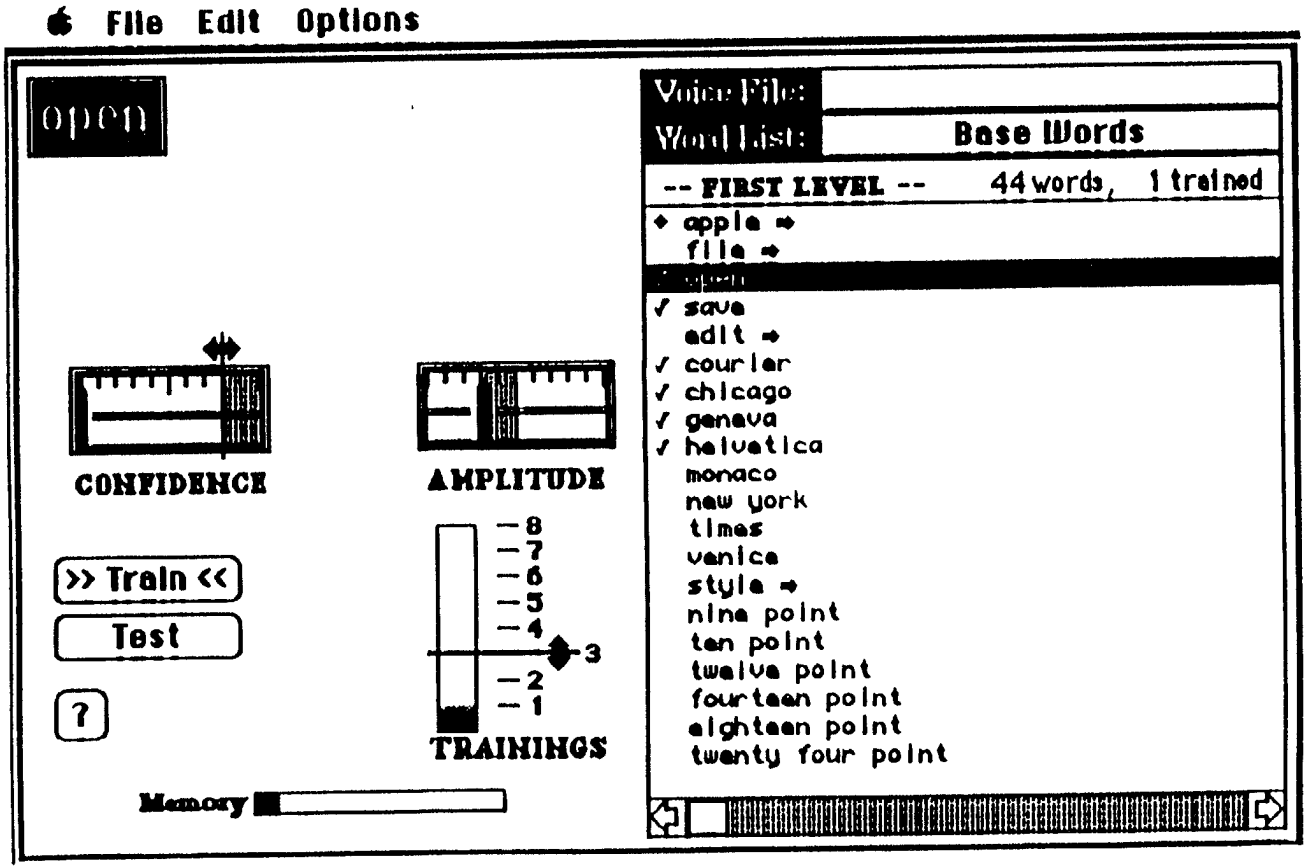

File Edit Options
open
Voice File:
Word List:
Base Words
-- FIRST LEVEL --
44 words, 1 trained
apple
file
open
save
edit
courier
chicago
geneva
helvetica
monaco
new york
times
venice
style
nine point
ten point
twelve point
fourteen point
eighteen point
twenty four point
CONFIDENCE
AMPLITUDE
>> Train <<
Test
?
8
7
6
5
4
3
2
1
TRAININGS
Memory

FIGURE 40

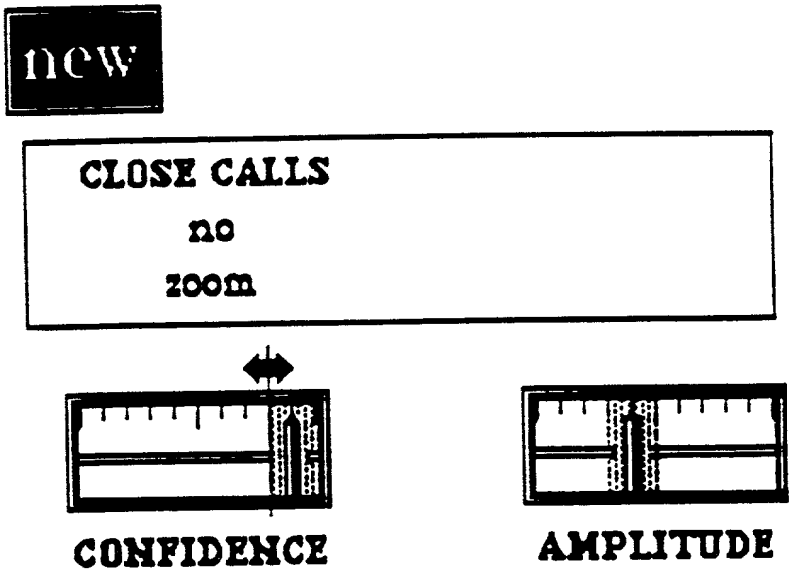


FIGURE 41

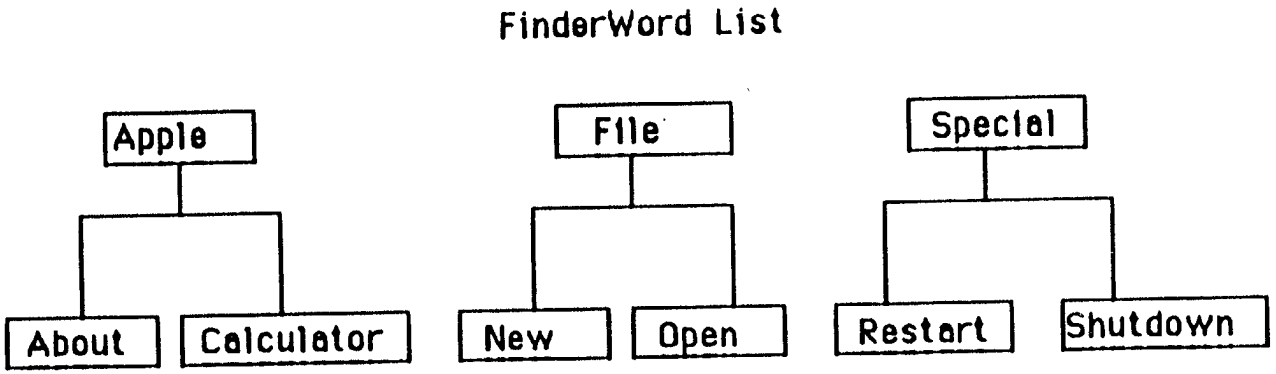

FinderWord List
Apple
About
Calculator
File
New
Open
Special
Restart
Shutdown

FIGURE 42

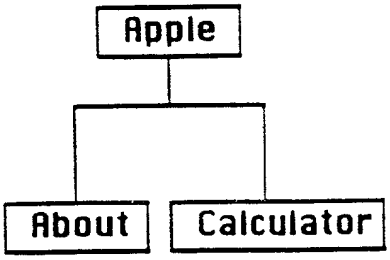


FIGURE 43

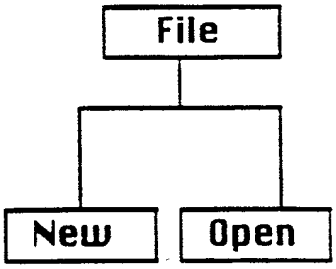


FIGURE 44

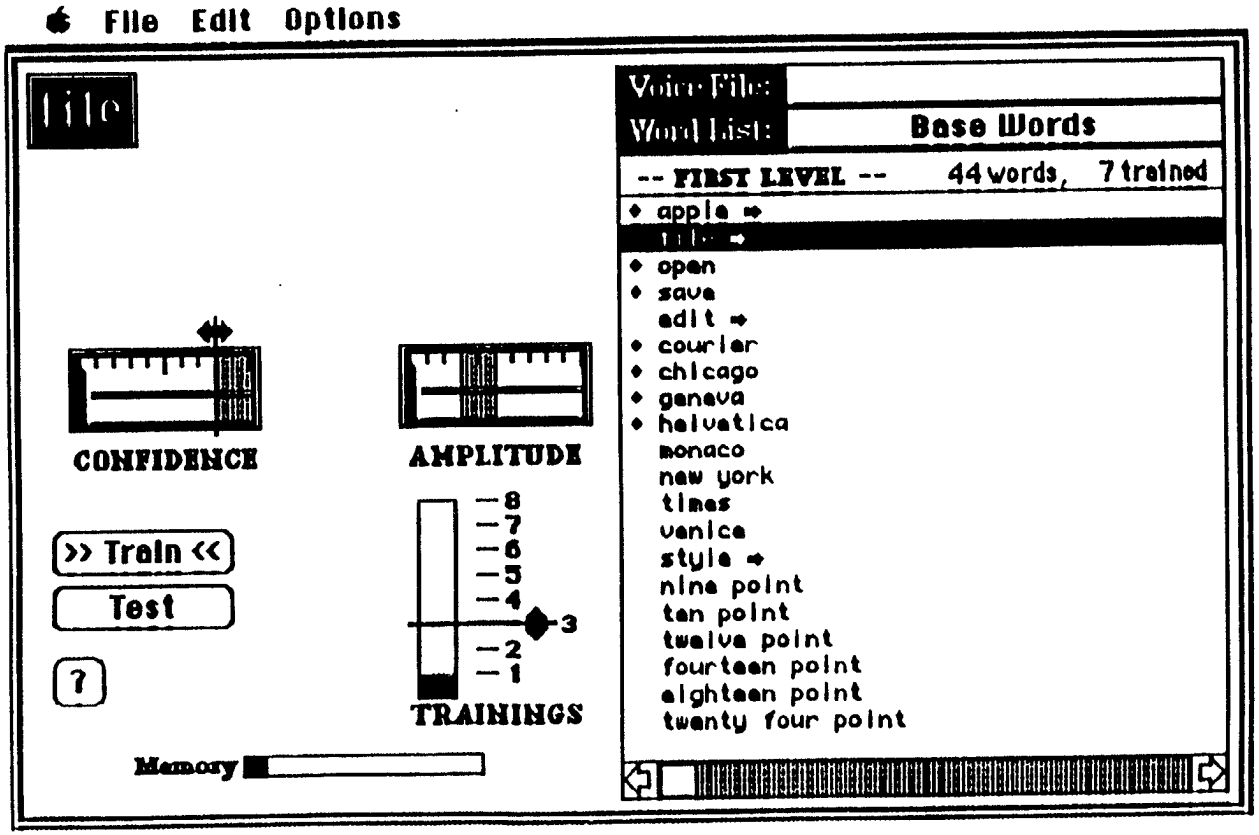

File Edit Options
File
Voice File:
Word List:
Base Words
-- FIRST LEVEL --
44 words, 7 trained
apple
file
open
save
edit
courier
chicago
geneva
helvatica
monaco
new york
times
venice
style
nine point
ten point
twelve point
fourteen point
eighteen point
twenty four point
CONFIDENCE
AMPLITUDE
>> Train <<
Test
?
8
7
6
5
4
3
2
1
TRAININGS
Memory

FIGURE 45

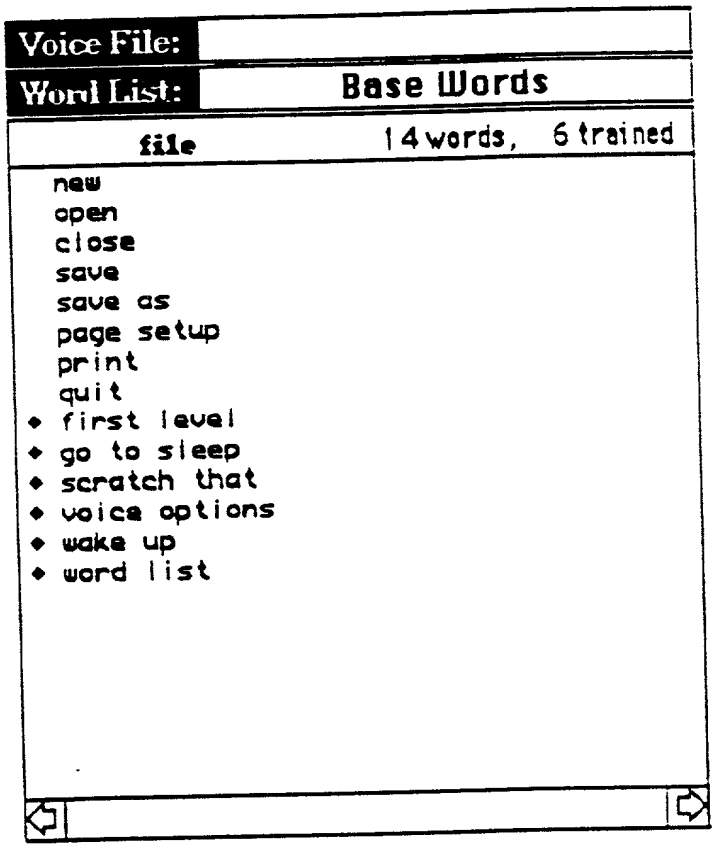

Voice File:
Word List:
Base Words
file
14 words, 6 trained
new
open
close
save
save as
page setup
print
quit
first level
go to sleep
scratch that
voice options
wake up
word list

FIGURE 46

T06050" 6th025860

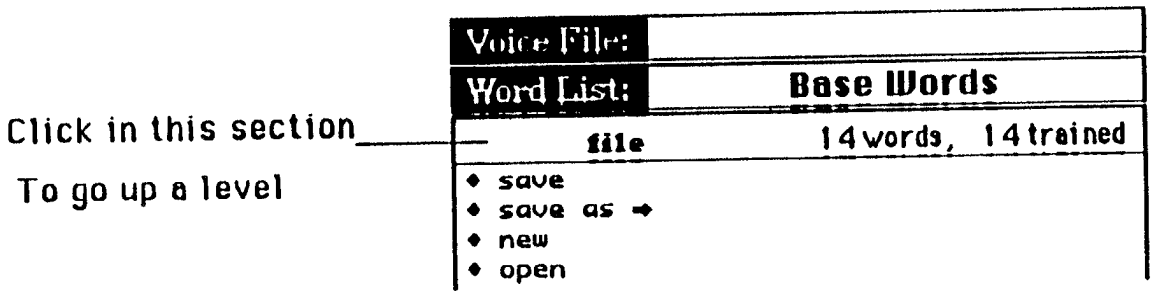


FIGURE 47

T06050" 6h025860

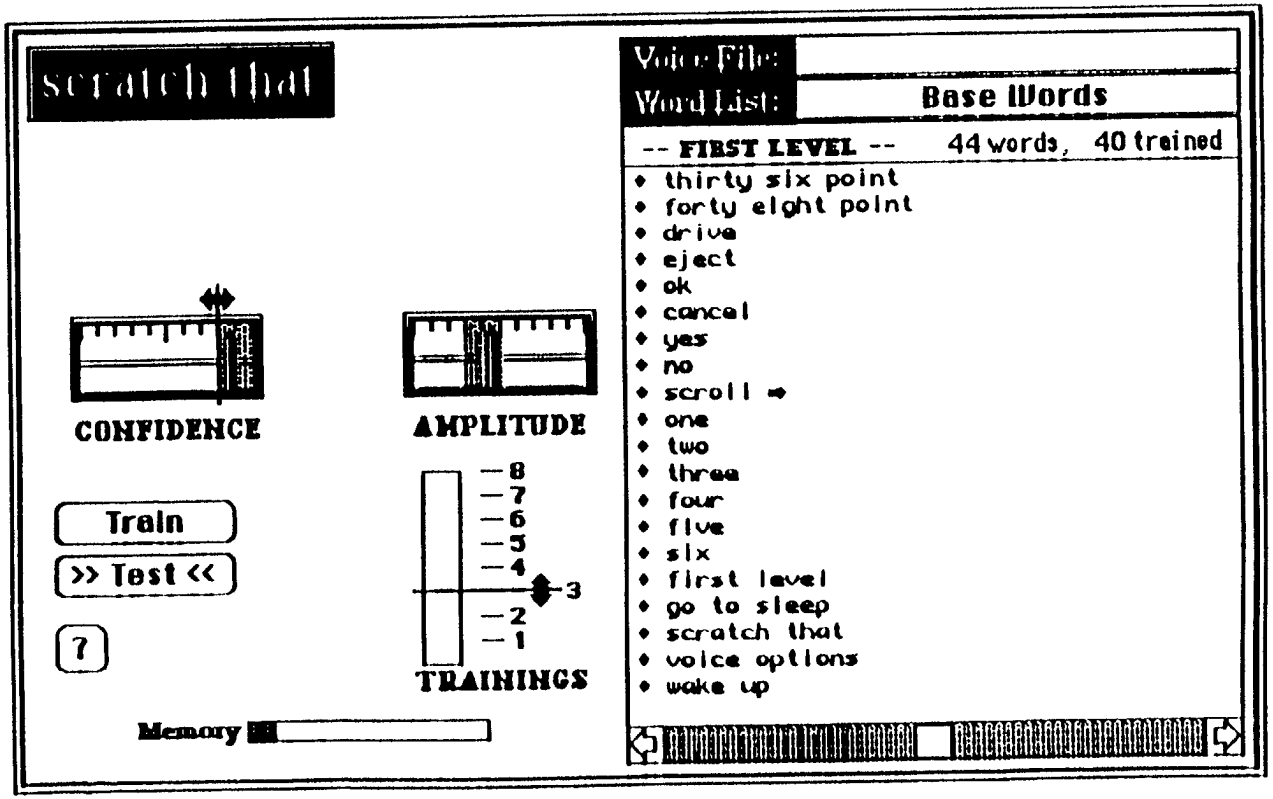


FIGURE 49

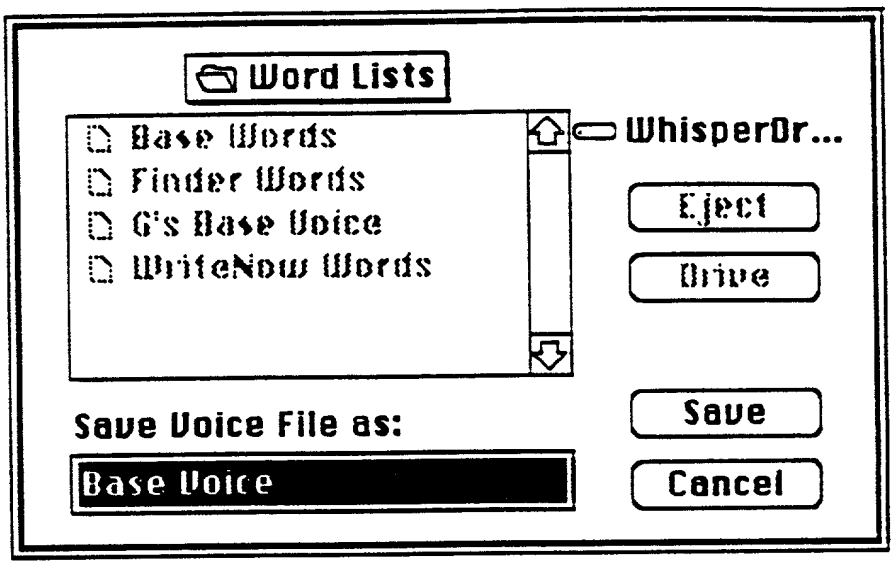

Word Lists
Base Words
Finder Words
G's Base Voice
WriteNow Words
WhisperDr...
Eject
Drive
Save Voice File as:
Base Voice
Save
Cancel

FIGURE 49

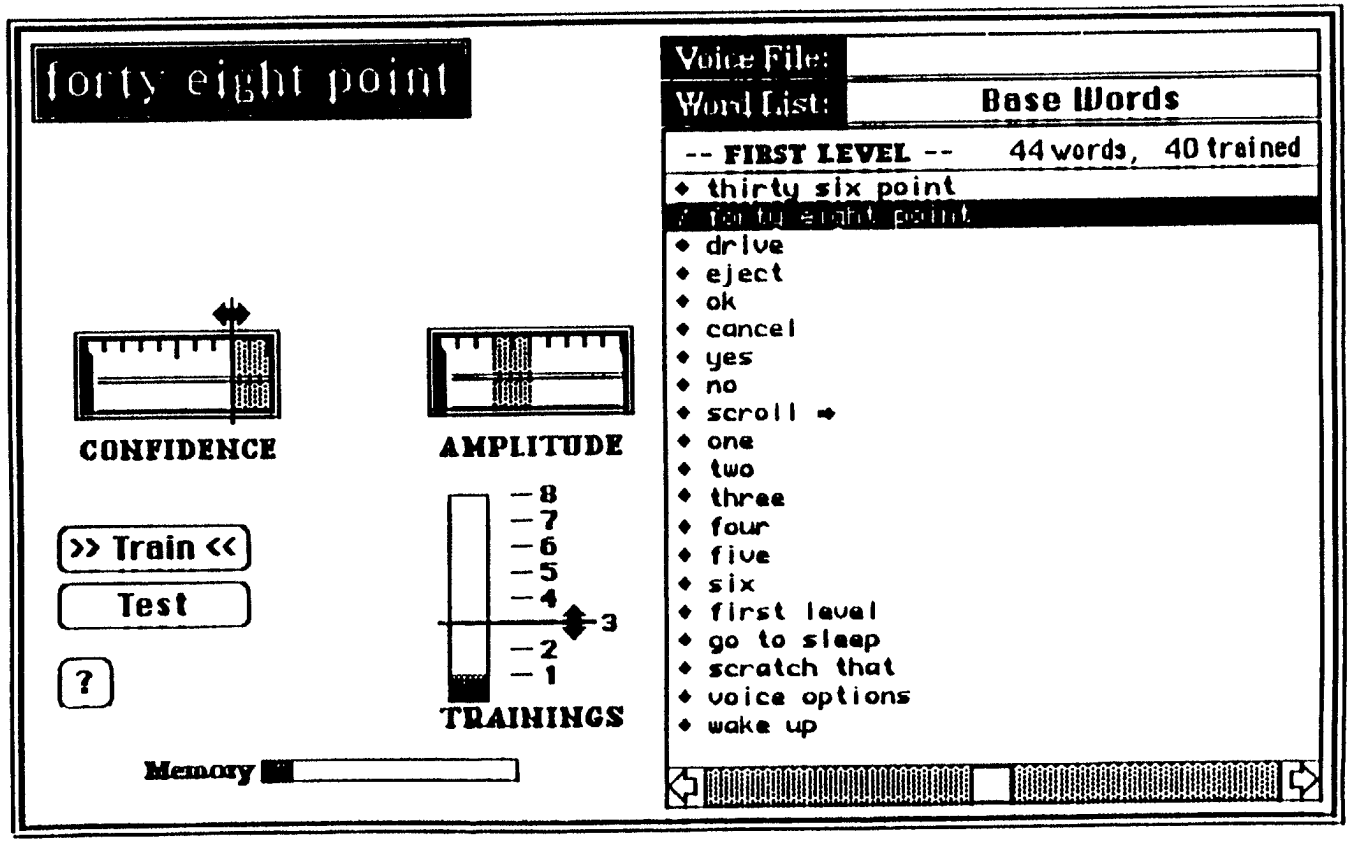

forty eight point
Voice File:
Word List:
Base Words
-- FIRST LEVEL --
44 words, 40 trained
◆ thirty six point
◆ forty eight point
◆ drive
◆ eject
◆ ok
◆ cancel
◆ yes
◆ no
◆ scroll ➡
◆ one
◆ two
◆ three
◆ four
◆ five
◆ six
◆ first level
◆ go to sleep
◆ scratch that
◆ voice options
◆ wake up
CONFIDENCE
AMPLITUDE
8
7
6
5
4
3
2
1
TRAININGS
>> Train <<
Test
?
Memory

FIGURE 50

T06050 "6h025860

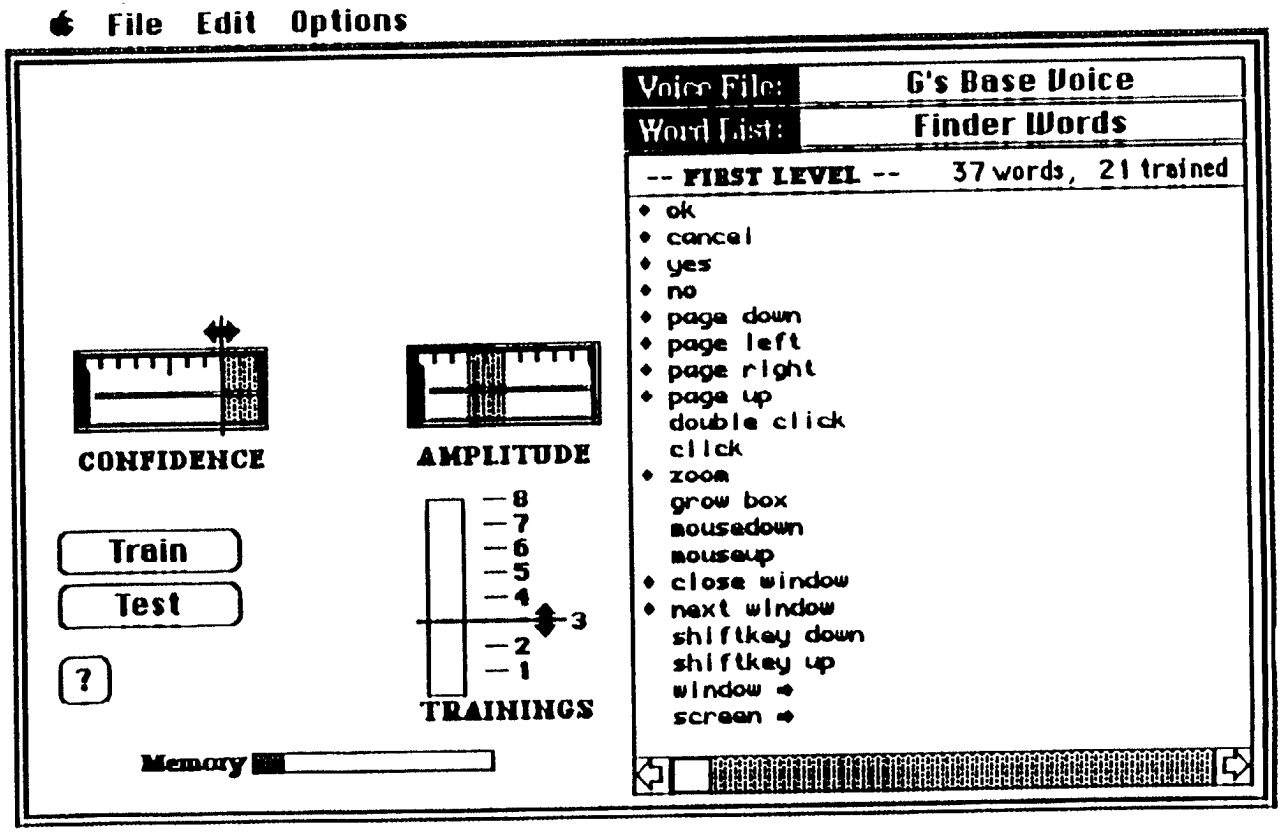


FIGURE 51

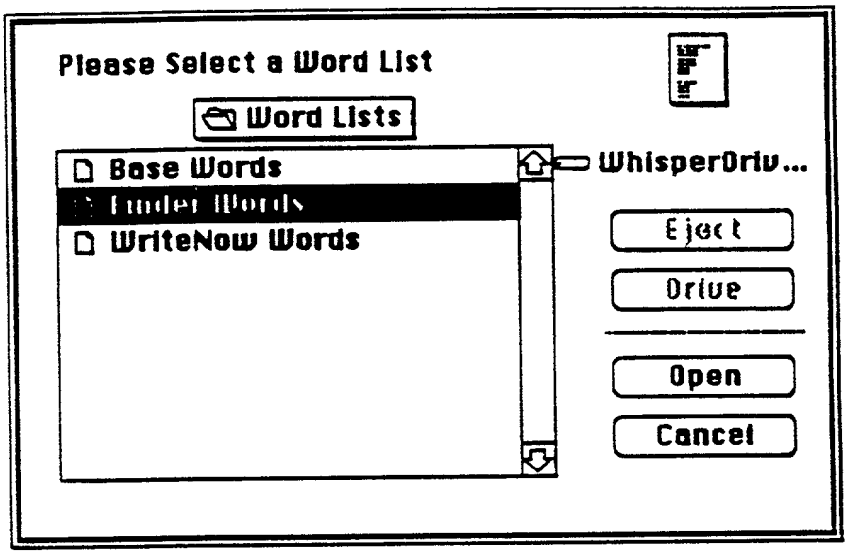


FIGURE 52

D-0050-0050-0050

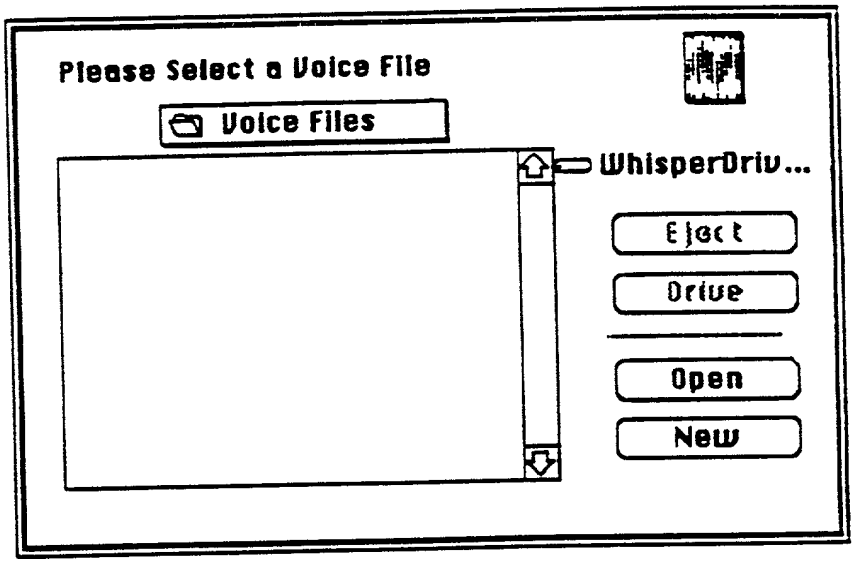

Please Select a Voice File
Voice Files
WhisperDriv...
Eject
Drive
Open
New

FIGURE 53

T06050 6h025860

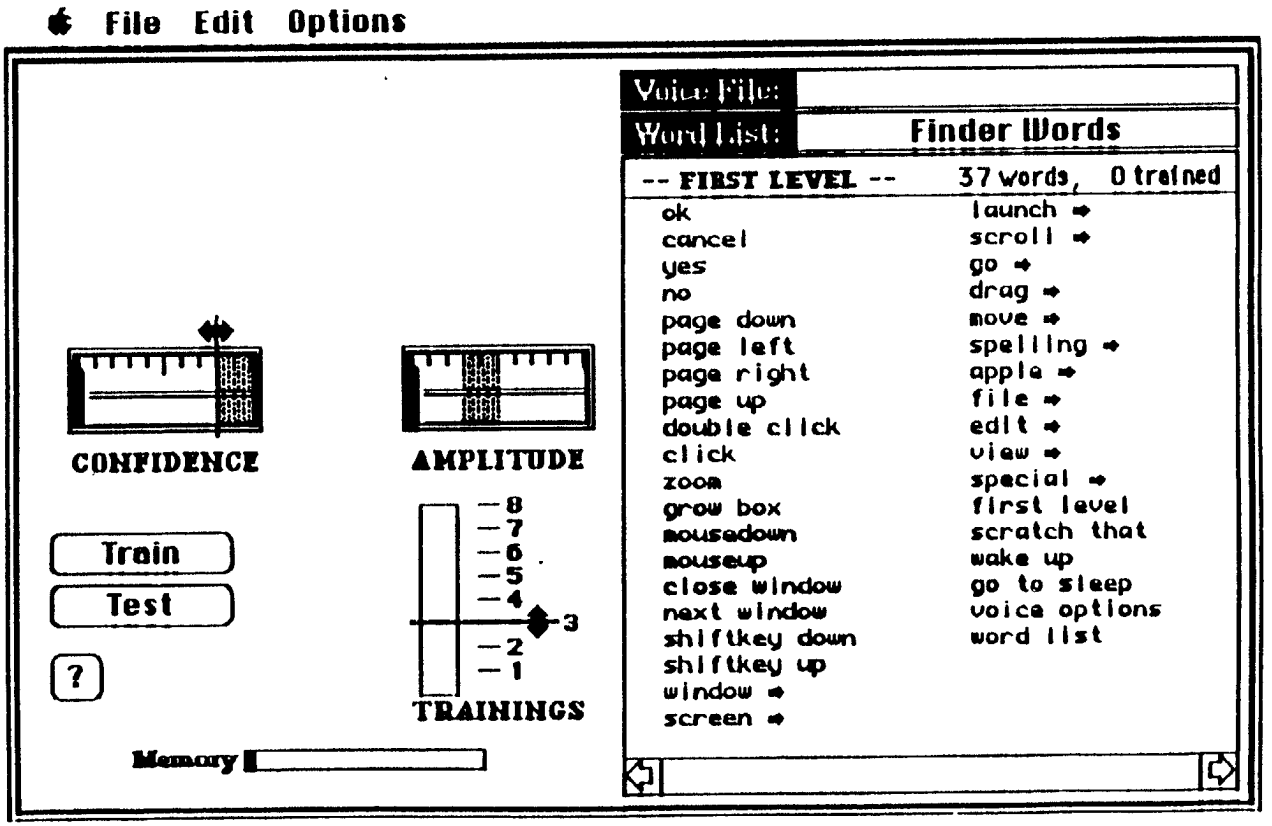


FIGURE 54

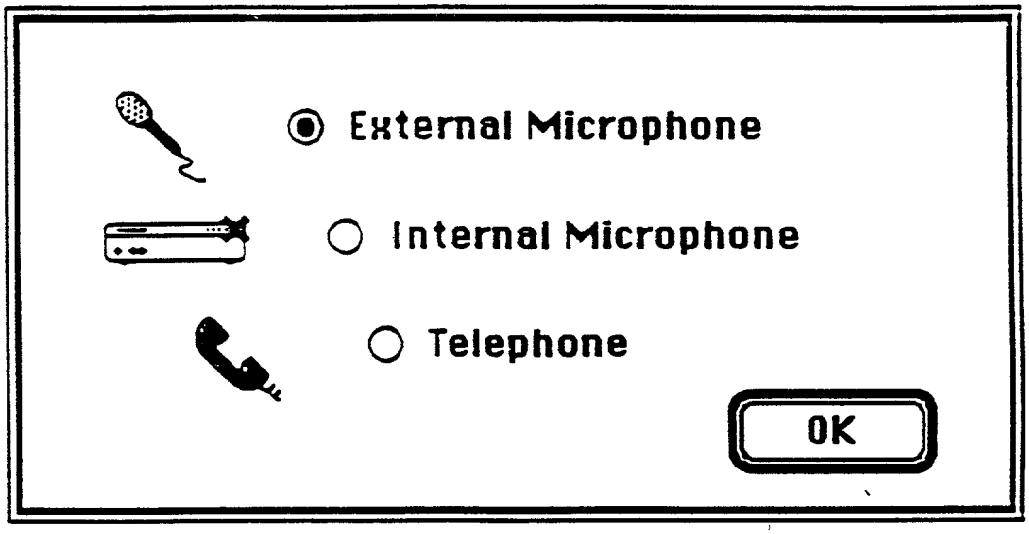


FIGURE 55

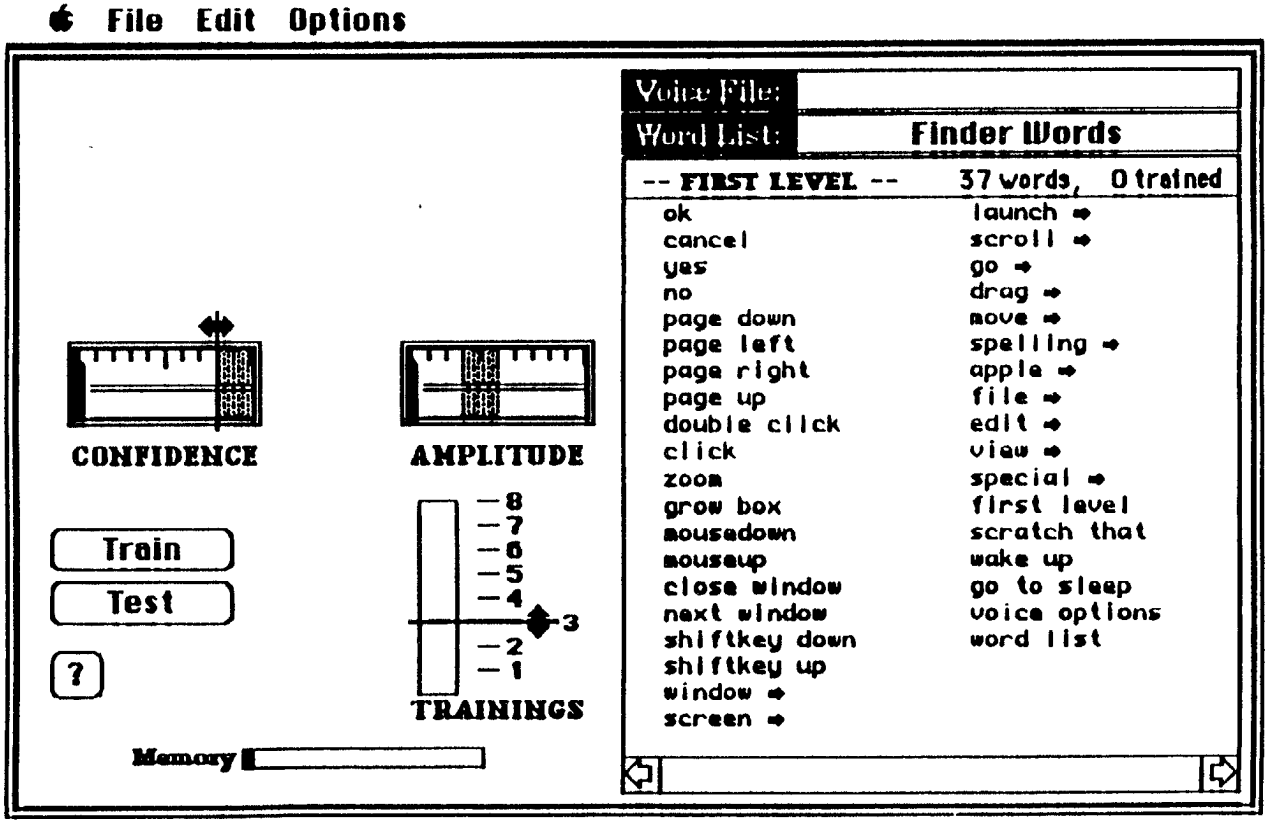

File Edit Options
Voice File:
Word List:
Finder Words
-- FIRST LEVEL --
37 words, 0 trained
ok
cancel
yes
no
page down
page left
page right
page up
double click
click
zoom
grow box
mousedown
mouseup
close window
next window
shiftkey down
shiftkey up
window ➡
screen ➡
launch ➡
scroll ➡
go ➡
drag ➡
move ➡
spelling ➡
apple ➡
file ➡
edit ➡
view ➡
special ➡
first level
scratch that
wake up
go to sleep
voice options
word list
CONFIDENCE
AMPLITUDE
Train
Test
?
8
7
6
5
4
3
2
1
TRAININGS
Memory

FIGURE 56

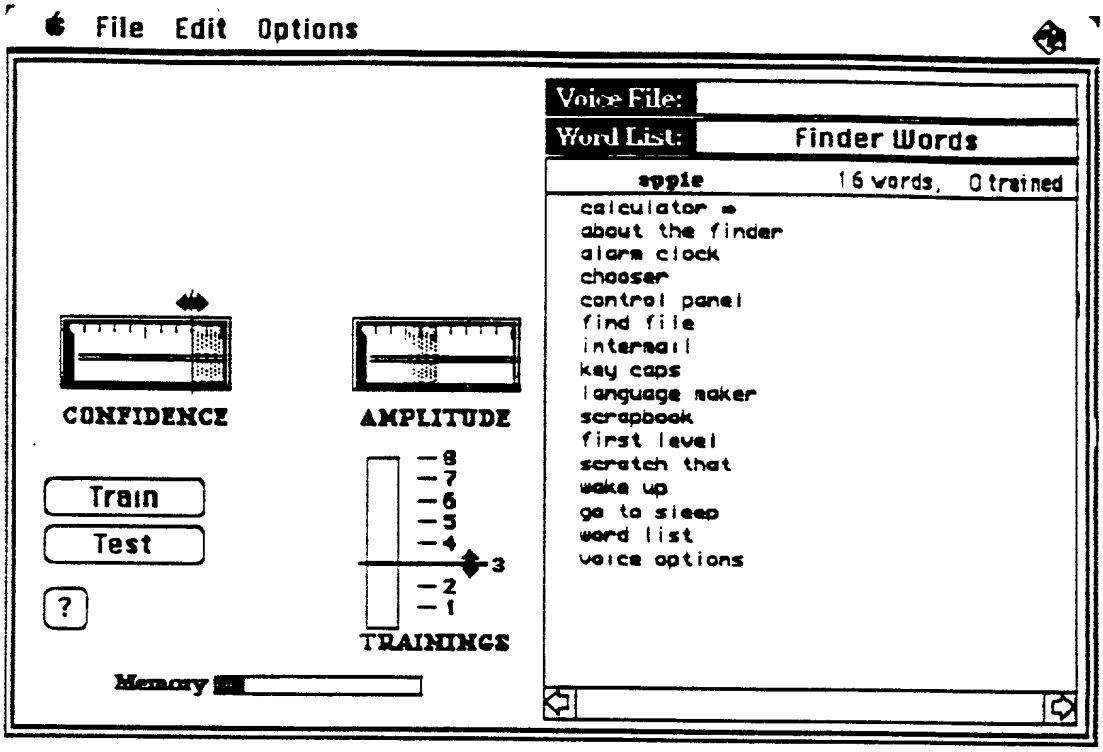

File Edit Options
Voice File:
Word List:
Finder Words
apple
16 words, 0 trained
calculator
about the finder
alarm clock
chooser
control panel
find file
internail
key caps
language maker
scrapbook
first level
scratch that
wake up
go to sleep
word list
voice options
CONFIDENCE
AMPLITUDE
Train
Test
?
8
7
6
5
4
3
2
1
TRAININGS
Memory

FIGURE 57

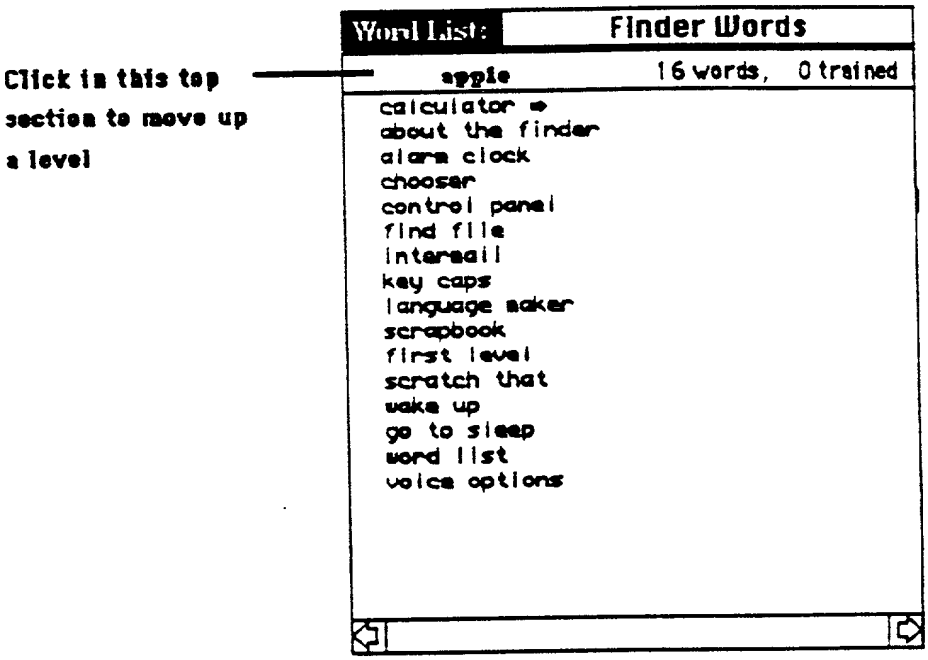


FIGURE 58

Case 3:05-cv-00037-JJF Document 1-3 Filed 01/24/2005

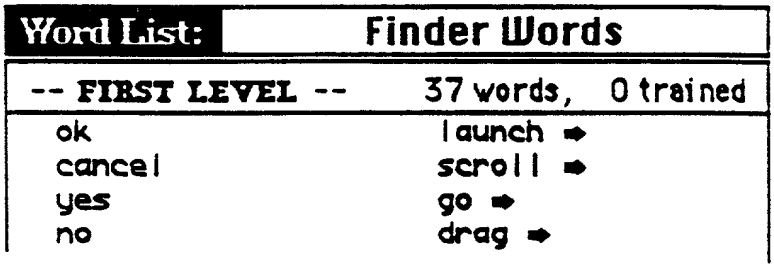


FIGURE 59

D6050E5-050501

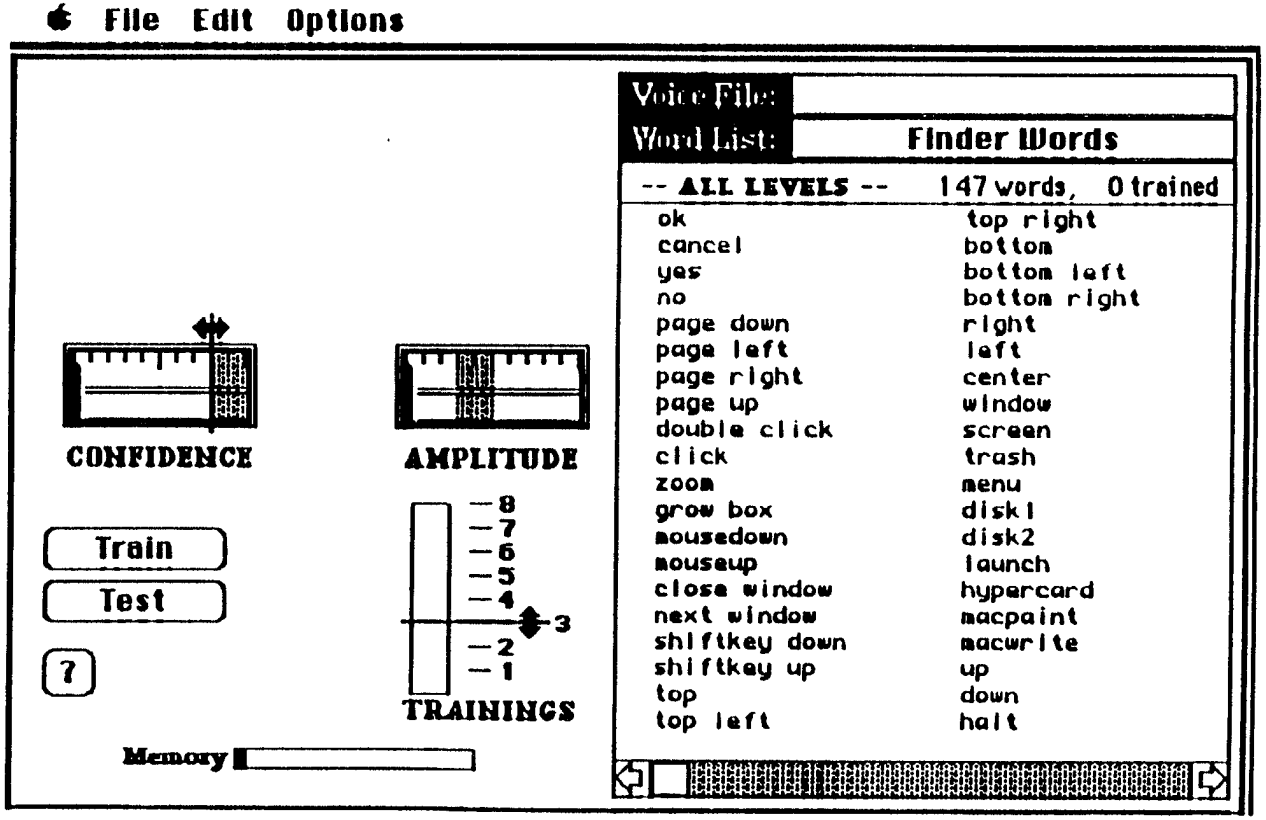

File Edit Options
Voice File:
Word List:
Finder Words
-- ALL LEVELS --
147 words, 0 trained
ok
cancel
yes
no
page down
page left
page right
page up
double click
click
zoom
grow box
mousedown
mouseup
close window
next window
shiftkey down
shiftkey up
top
top left
top right
bottom
bottom left
bottom right
right
left
center
window
screen
trash
menu
disk1
disk2
launch
hypercard
macpaint
macwrite
up
down
halt
CONFIDENCE
AMPLITUDE
Train
Test
?
8
7
6
5
4
3
2
1
TRAININGS
Memory

FIGURE 60

Exhibit 1013 - Page 1013

scroll ➡
go ➡
move ➡
spelling ➡
apple ➡
file ➡
edit ➡
view ➡
special ➡
first level

FIGURE 61

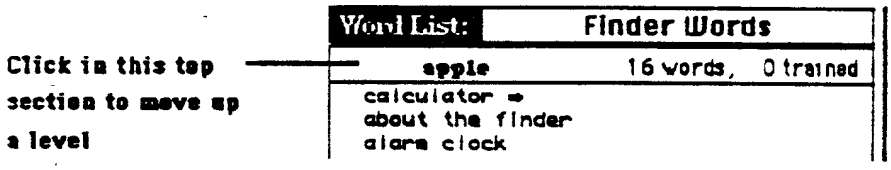


FIGURE 62

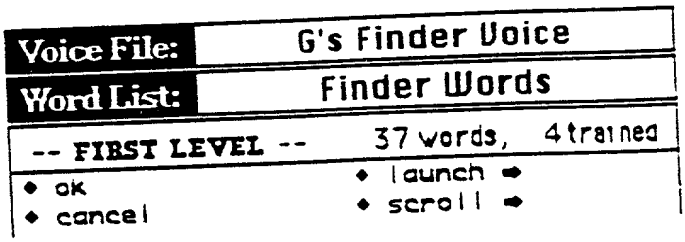


FIGURE 64

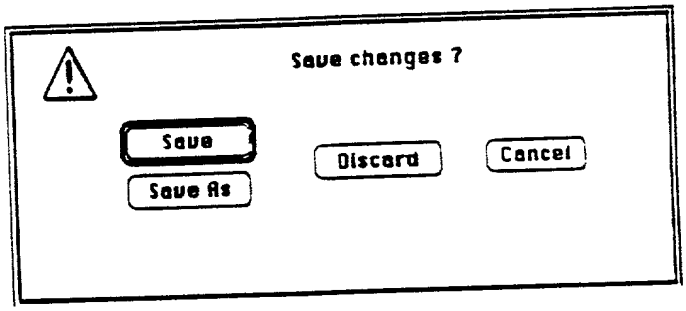


FIGURE 63

D95R2043-050502

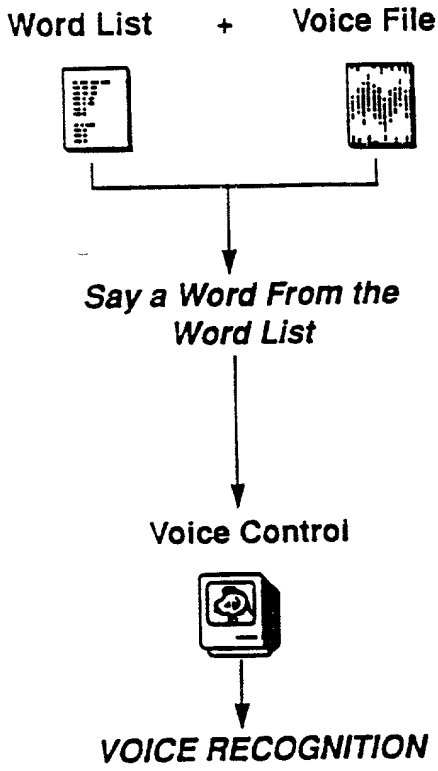


FIGURE 65

FIGURE 66

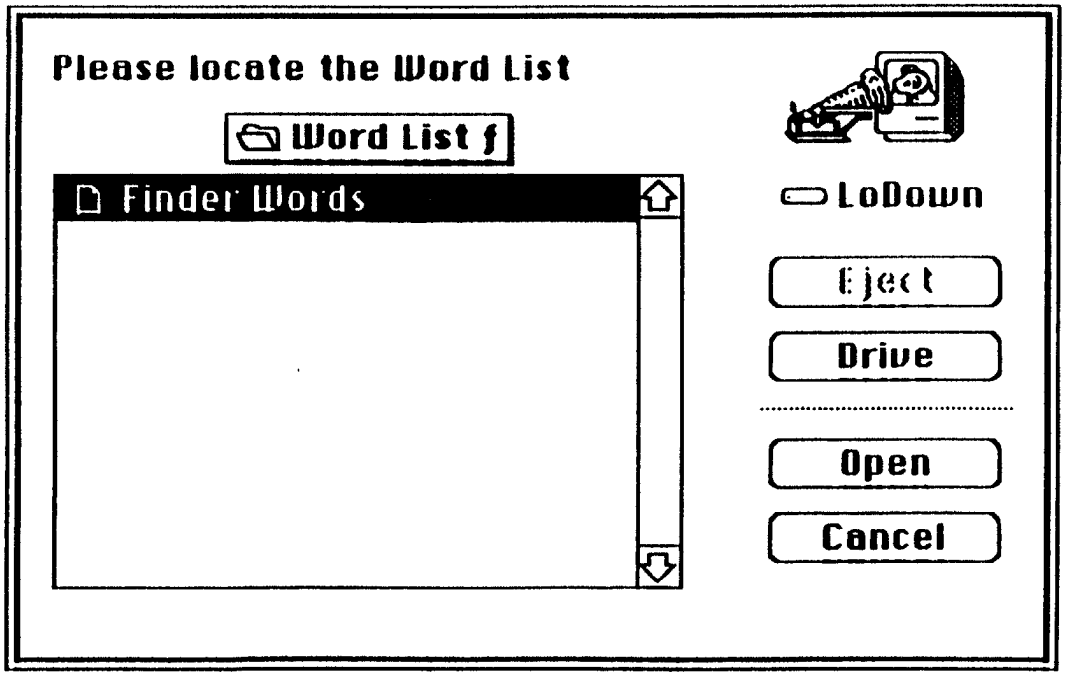

Please locate the Word List
Word List ƒ
Finder Words
LoDown
Eject
Drive
Open
Cancel

FIGURE 67

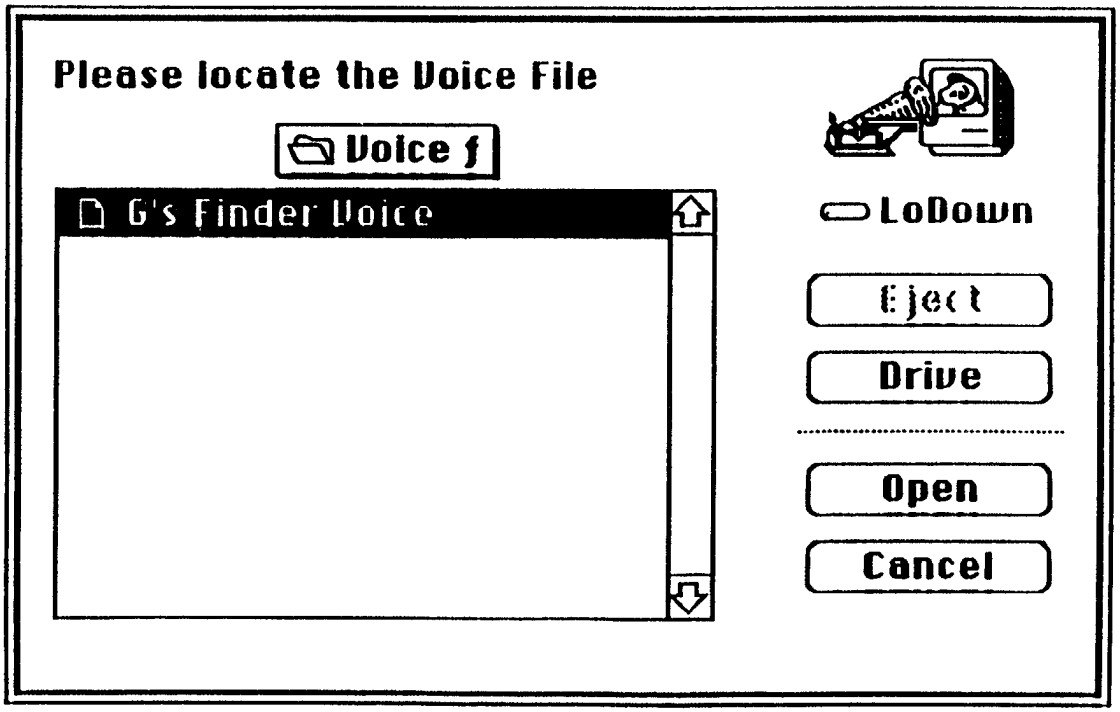

Please locate the Voice File
Voice ƒ
G's Finder Voice
LoDown
Eject
Drive
Open
Cancel

FIGURE 68

FIGURE 69

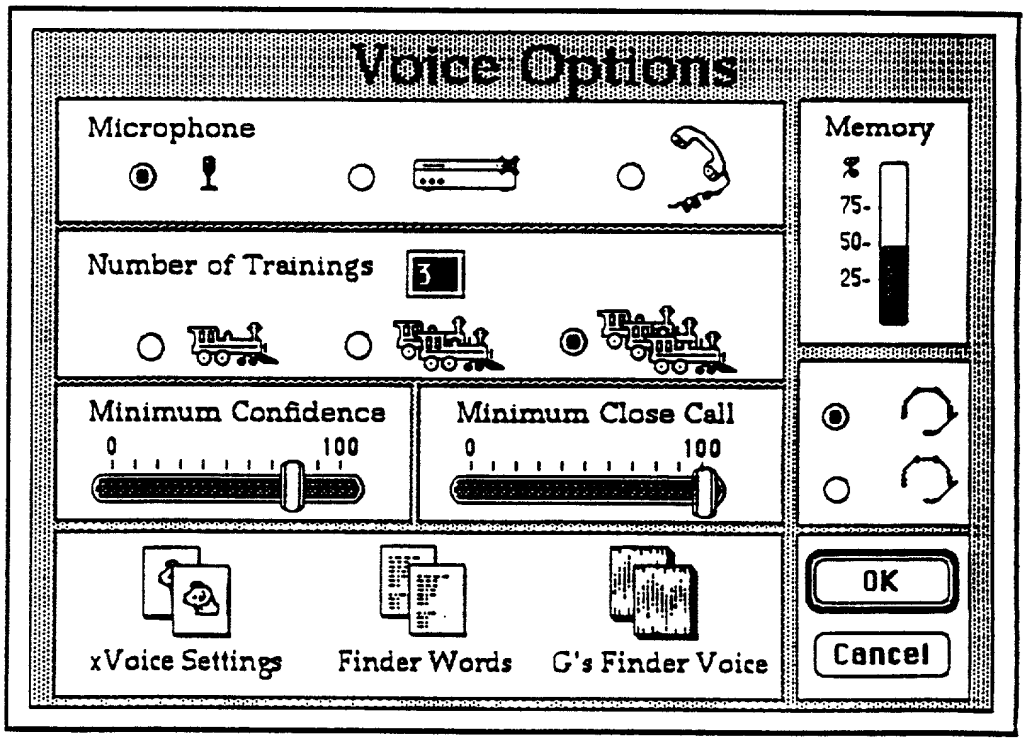


FIGURE 70

P09950-040205GD

FIGURE 71

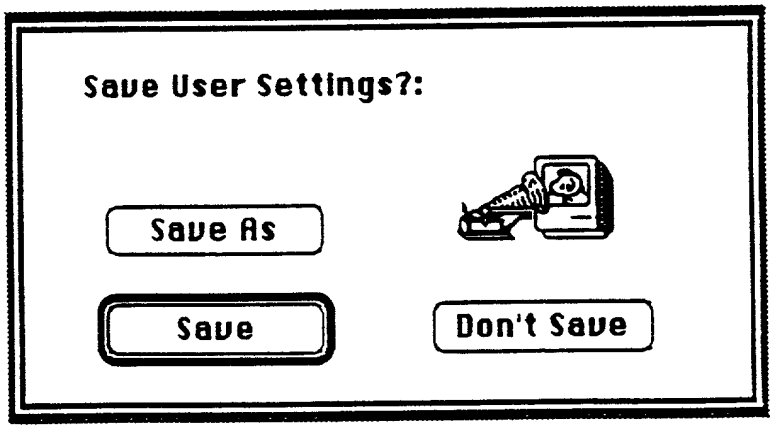


FIGURE 72

Document 5 - 0052

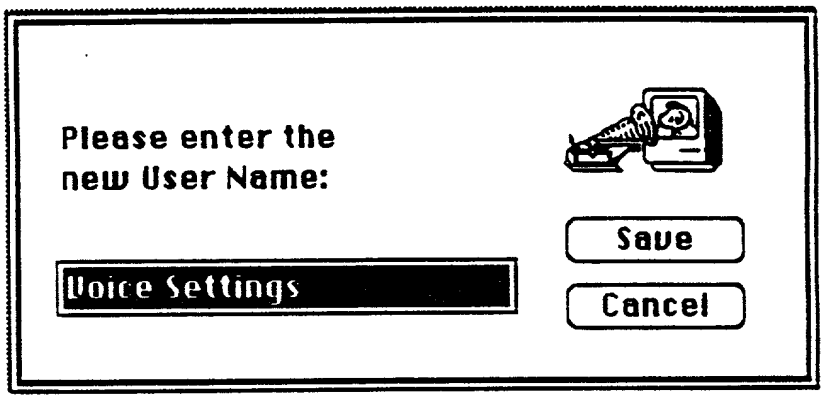


FIGURE 73

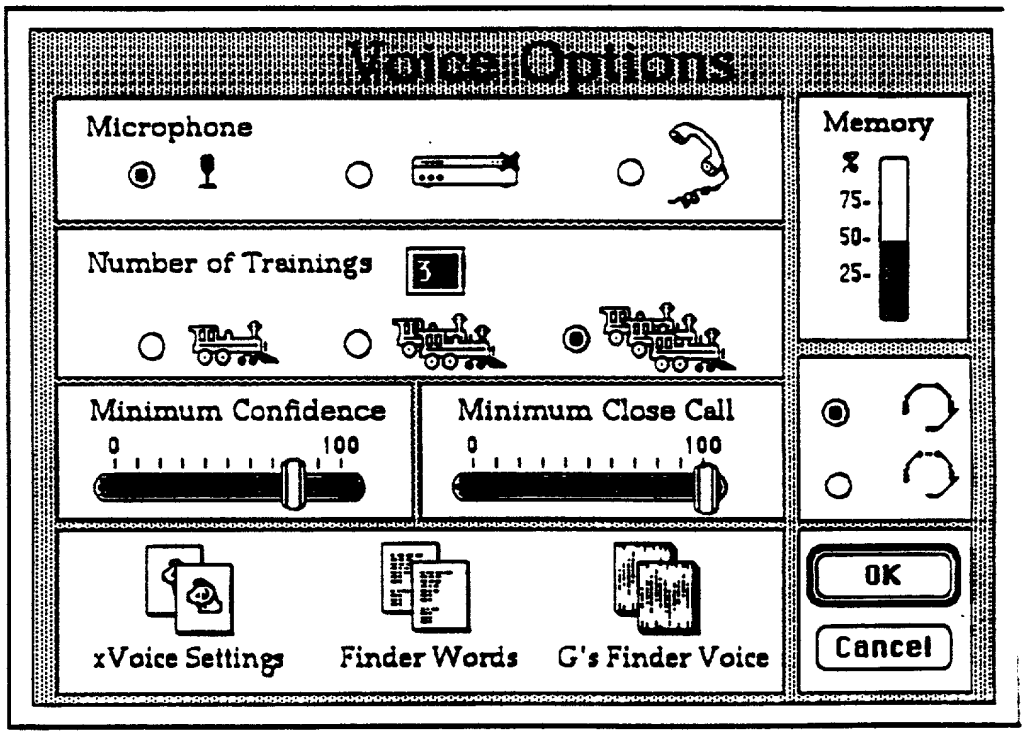

Voice Options
Microphone
Memory
100
75-
50-
25-
Number of Trainings
3
Minimum Confidence
0
100
Minimum Close Call
0
100
OK
Cancel
xVoice Settings
Finder Words
G's Finder Voice

FIGURE 74

5,960,394 - 09/28/99

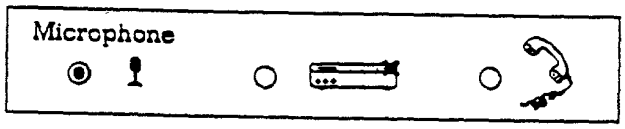


FIGURE 75

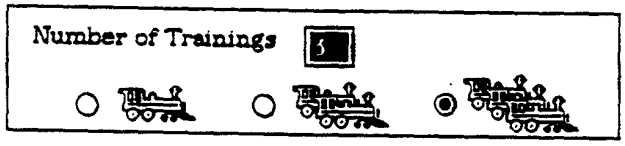


FIGURE 76

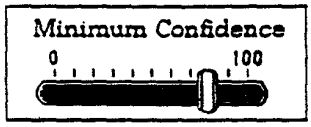


FIGURE 77

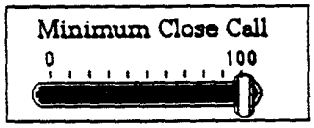


FIGURE 78

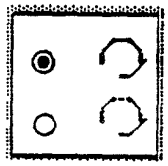


FIGURE 79

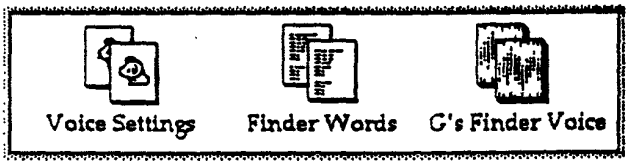


FIGURE 80

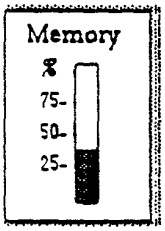


FIGURE 81

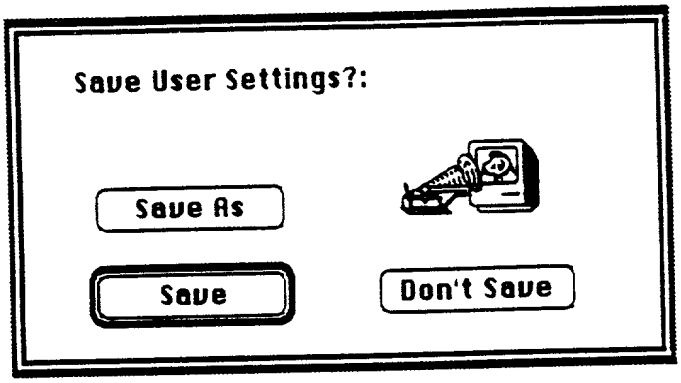


FIGURE 82

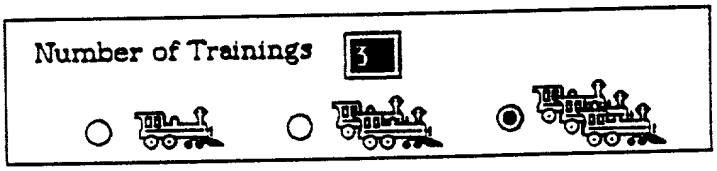


FIGURE 83

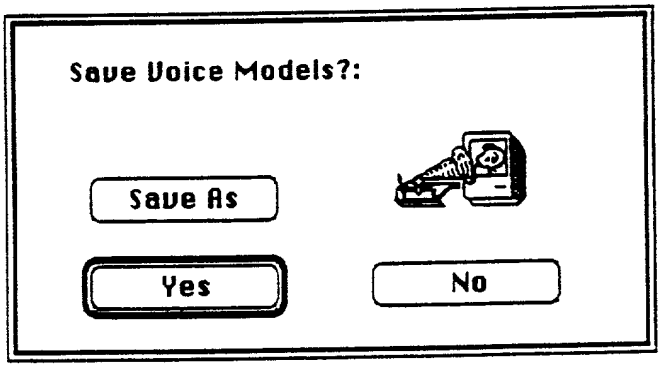


FIGURE 84

Feb 20 05 04:36p 9725258588 p.64

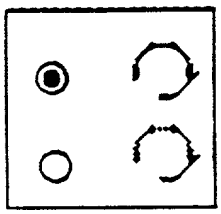


FIGURE 85

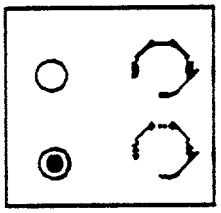


FIGURE 86

FIGURE 87

T06050" 6tn025860

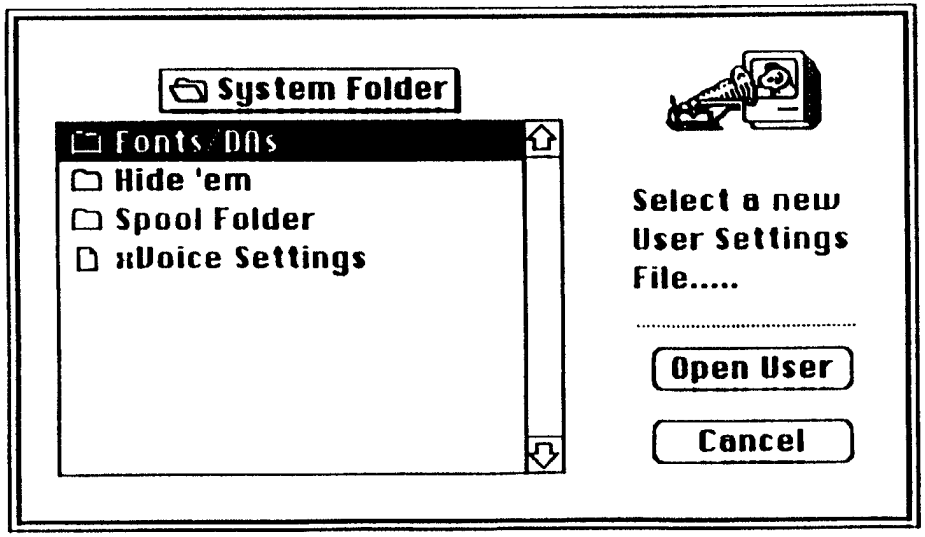


FIGURE 88

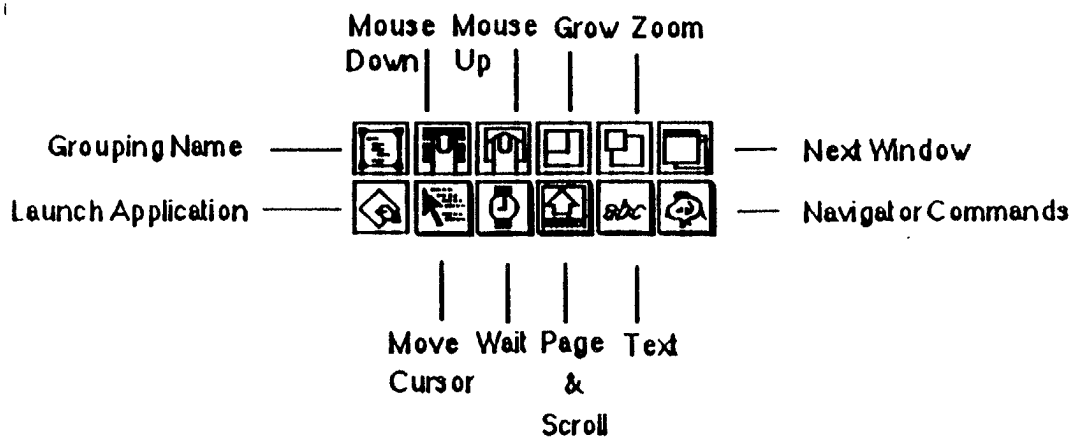

Mouse Down
Mouse Up
Grow
Zoom
Grouping Name
Launch Application
Next Window
Navigator Commands
Move Cursor
Wait
Page & Scroll
Text

FIGURE 89

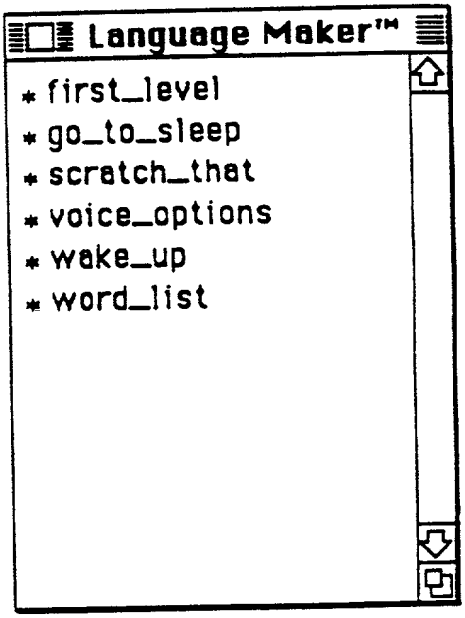

Language Maker™
* first_level
* go_to_sleep
* scratch_that
* voice_options
* wake_up
* word_list

FIGURE 90

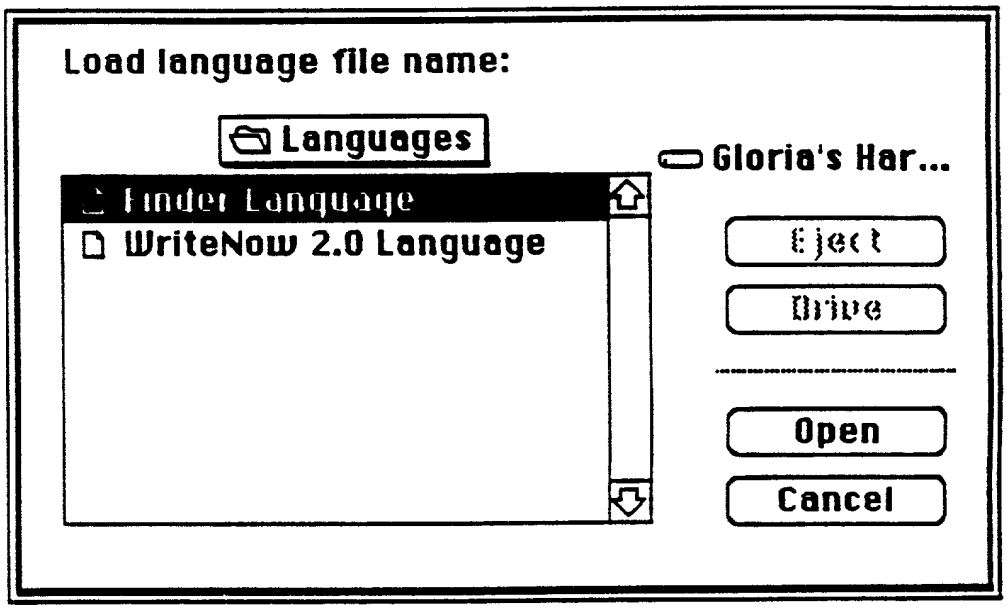

Load language file name:
Languages
Gloria's Har...
Finder Language
WriteNow 2.0 Language
Eject
Drive
Open
Cancel

FIGURE 91

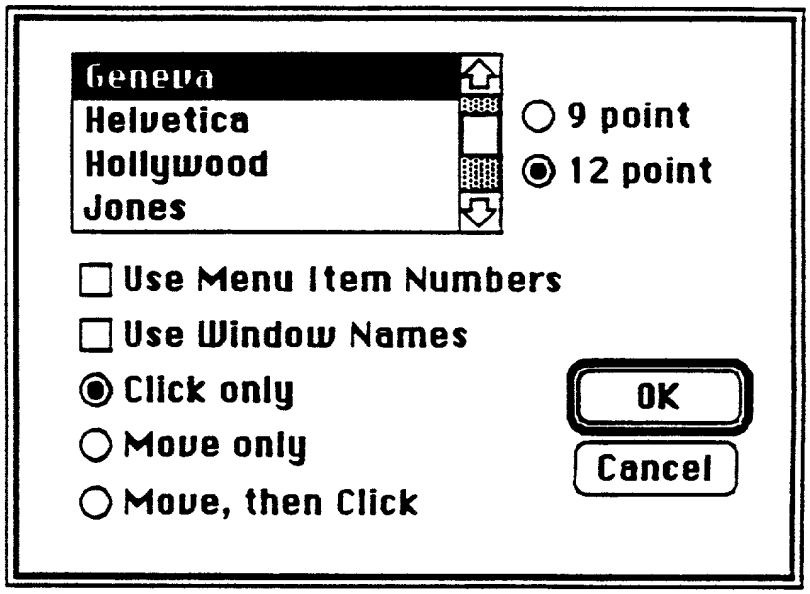

Geneva
Helvetica
Hollywood
Jones
9 point
12 point
Use Menu Item Numbers
Use Window Names
Click only
Move only
Move, then Click
OK
Cancel

FIGURE 92

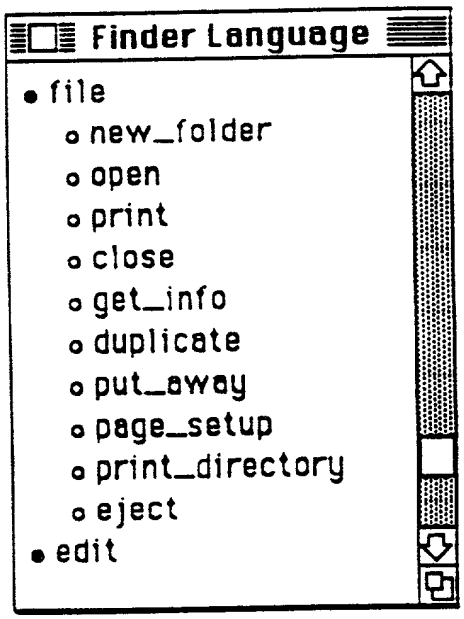


FIGURE 93

Document 5 of 5 - 05/05/95

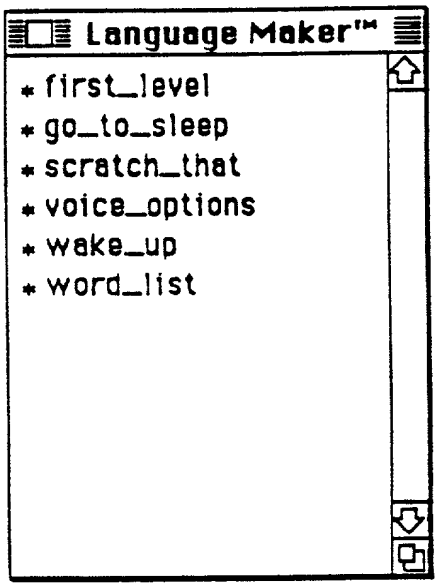


FIGURE 94

EXHIBIT 1004 - 0054

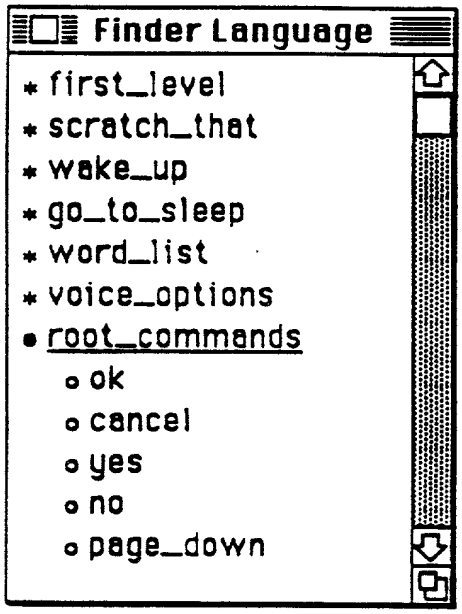

Finder Language
* first_level
* scratch_that
* wake_up
* go_to_sleep
* word_list
* voice_options
• root_commands
o ok
o cancel
o yes
o no
o page_down

FIGURE 95

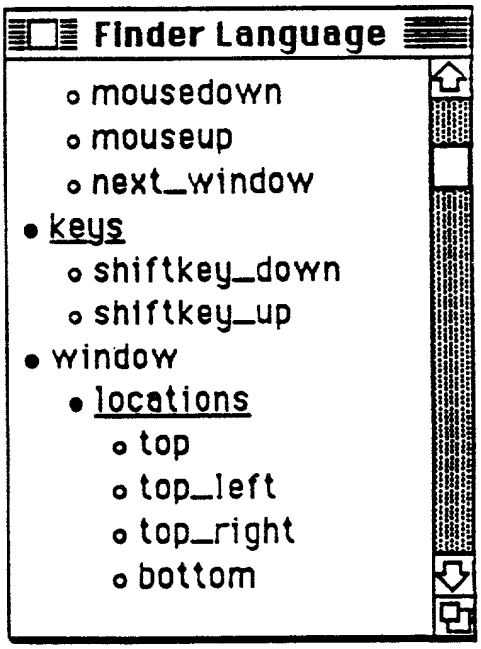


FIGURE 96

Document ID: 5055045.01

Patent Application Publication

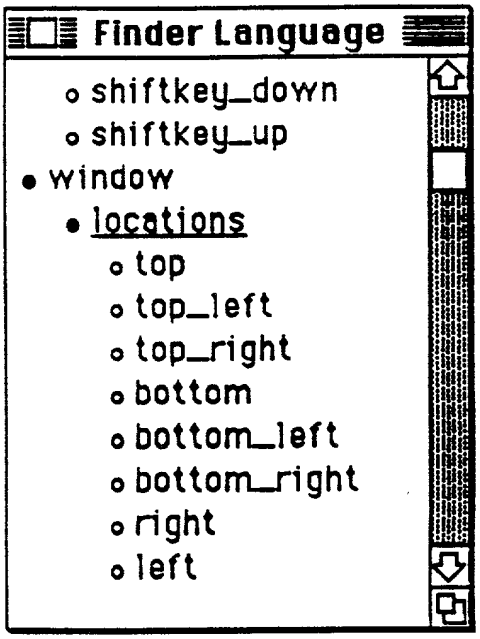


FIGURE 97

Apple Computer, Inc. 6,574,609

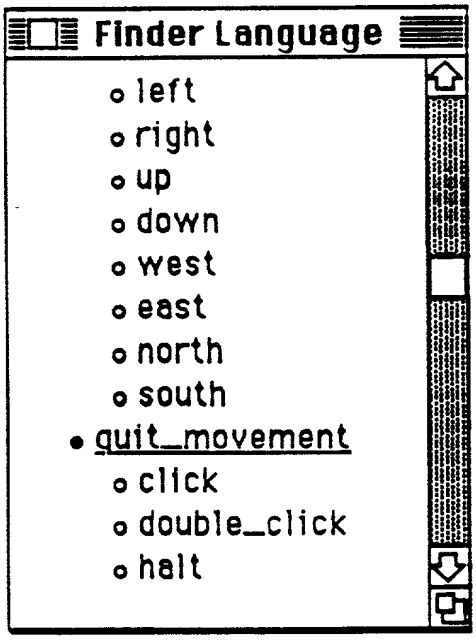


FIGURE 98

Apple Computer, Inc. 20525

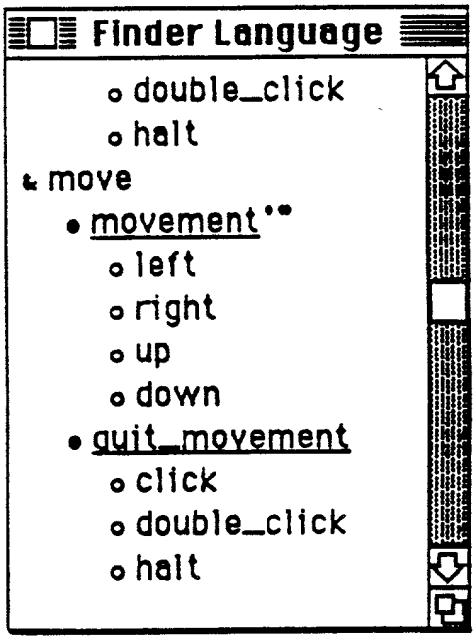


FIGURE 99

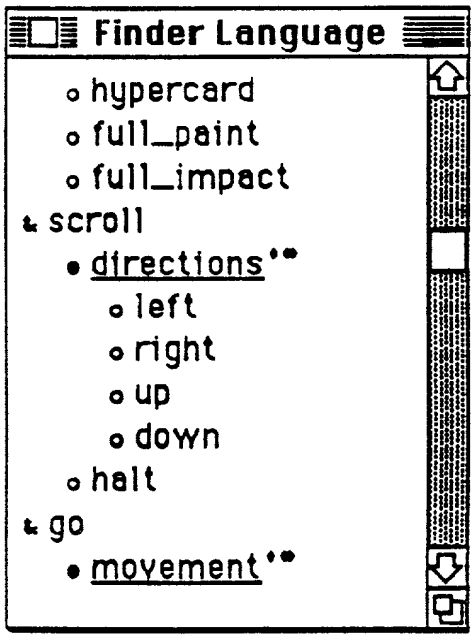


FIGURE 100

Petitioner - Ex. 1004 - Page 1004

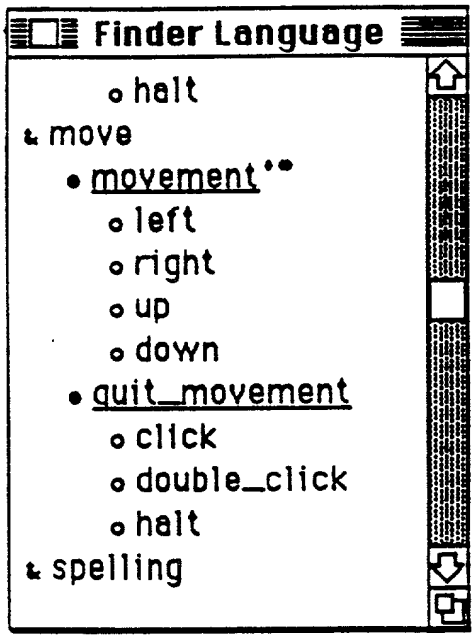


FIGURE 101

D5852450 - 050304

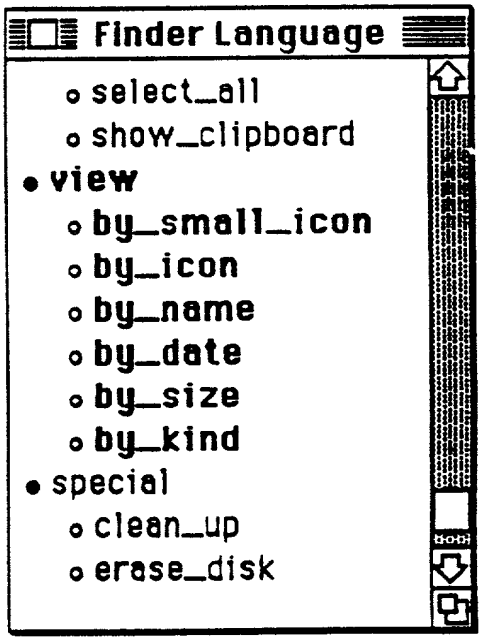

Finder Language
select_all
show_clipboard
view
by_small_icon
by_icon
by_name
by_date
by_size
by_kind
special
clean_up
erase_disk

FIGURE 102

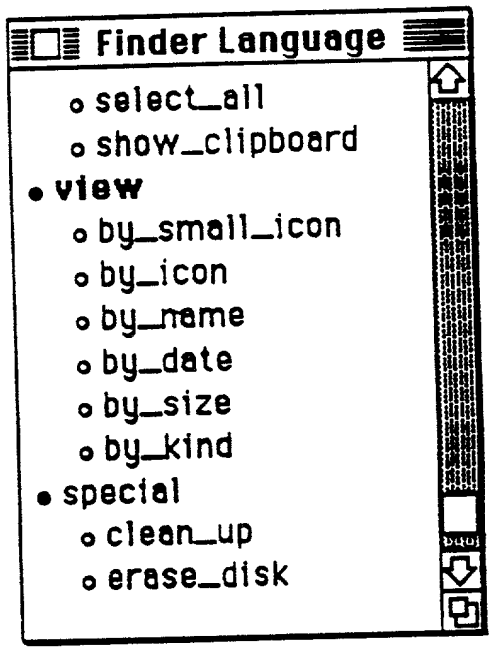

Finder Language
select_all
show_clipboard
view
by_small_icon
by_icon
by_name
by_date
by_size
by_kind
special
clean_up
erase_disk

FIGURE 103

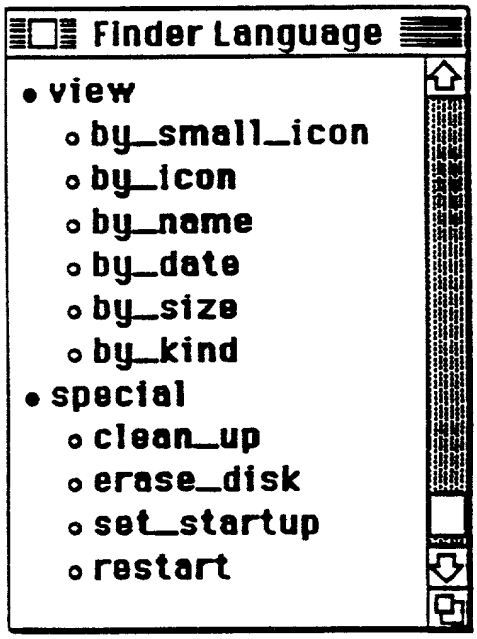

Finder Language
• view
o by_small_icon
o by_icon
o by_name
o by_date
o by_size
o by_kind
• special
o clean_up
o erase_disk
o set_startup
o restart

FIGURE 104

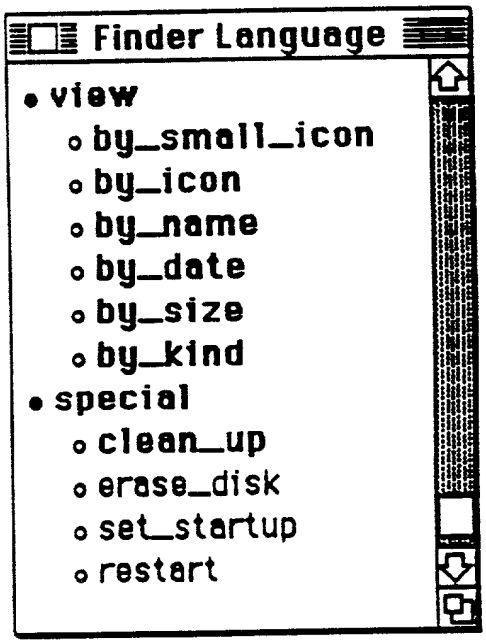

Finder Language
• view
o by_small_icon
o by_icon
o by_name
o by_date
o by_size
o by_kind
• special
o clean_up
o erase_disk
o set_startup
o restart

FIGURE 105

D95205 : 05/03/95

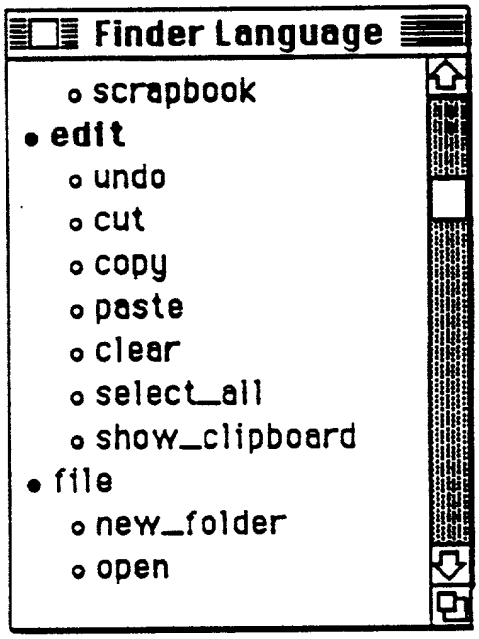


FIGURE 106

Pat-Pend-5,619,695

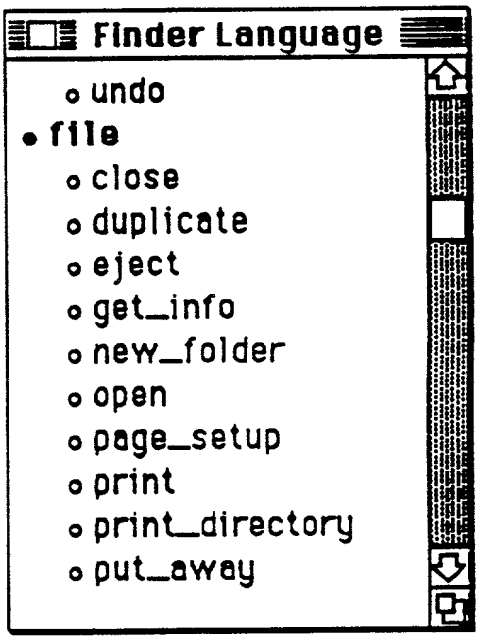
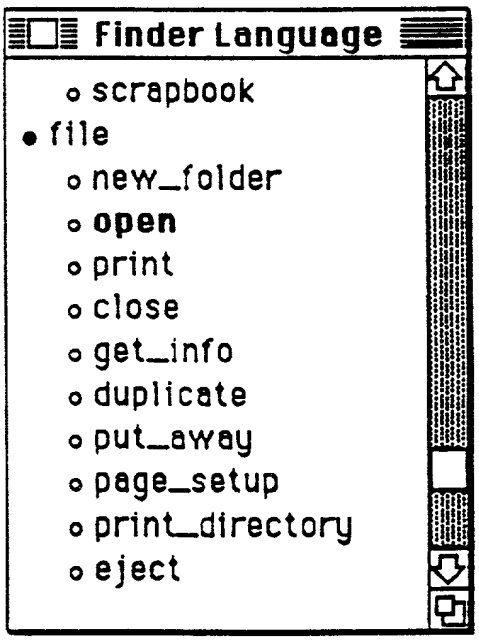


FIGURE 107



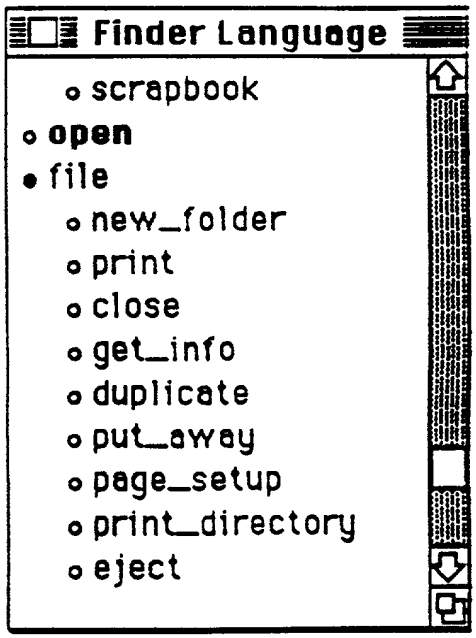


FIGURE 108

Page 5 of 5 Copyright

Document 5 of 5

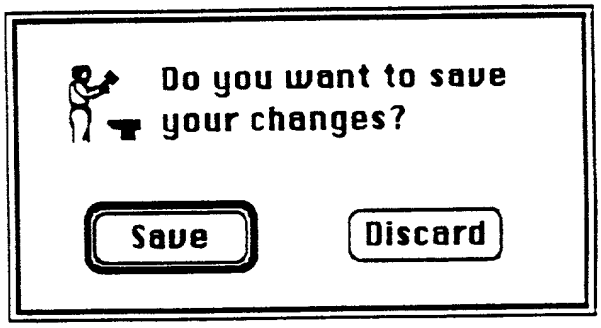


FIGURE 109

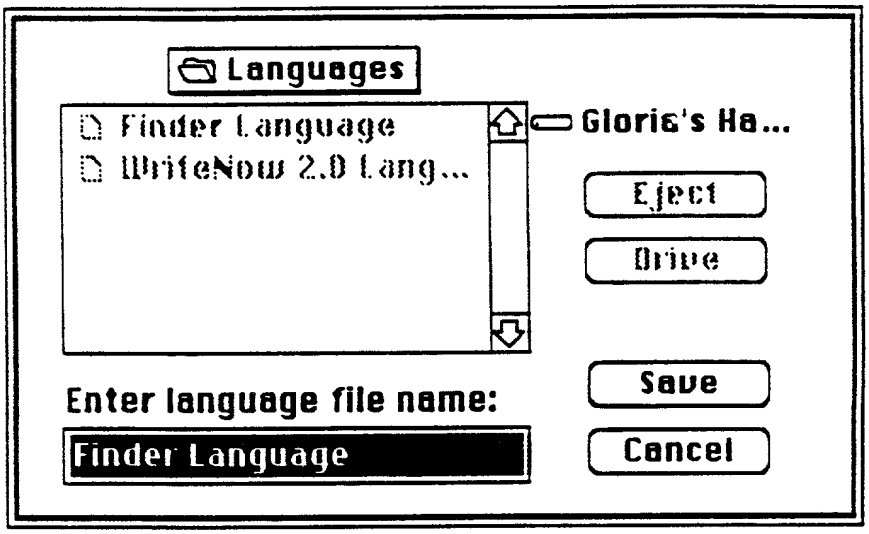

Languages
Finder Language
WriteNow 2.0 Lang...
Gloria's Ha...
Eject
Drive
Save
Enter language file name:
Finder Language
Cancel

FIGURE 110

D85R2450-D85C3D1F

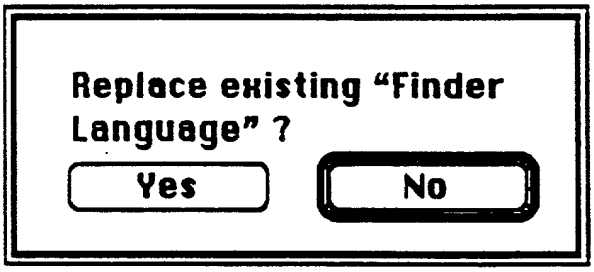


FIGURE 111

FIGURE 112

FIGURE 113

Document: 0050505-0050506

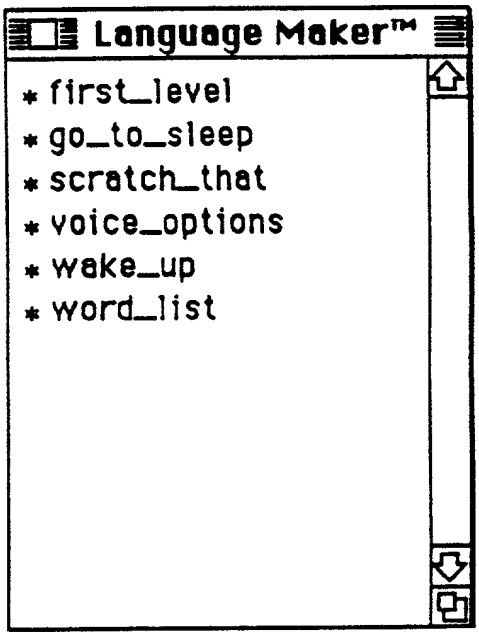


FIGURE 114

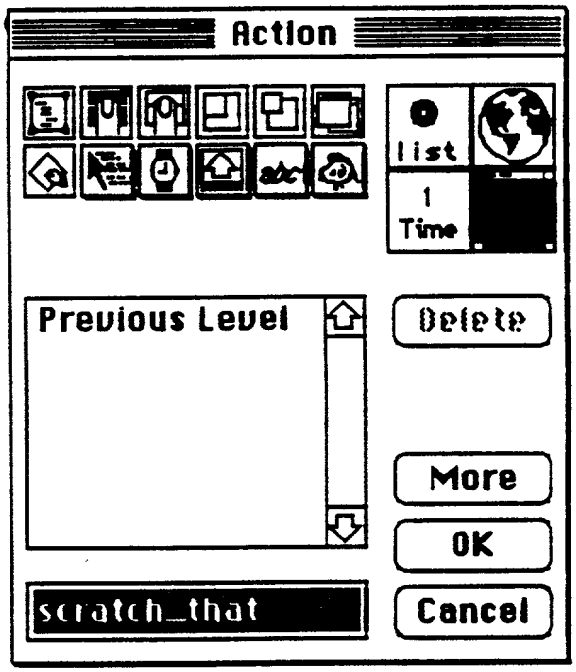

Action
list
1
Time
Previous Level
Delete
More
OK
Cancel
scratch_that

FIGURE 115

Docket No. 50277-0005

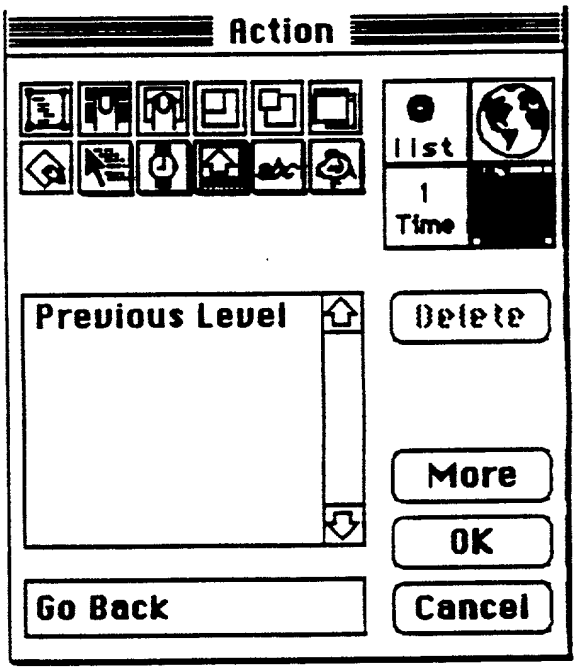


FIGURE 116

D0052015-D0052016

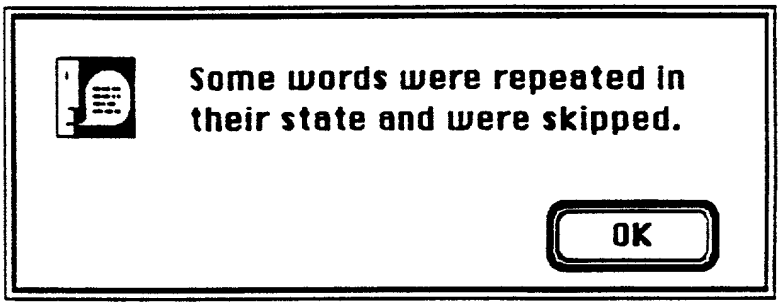


FIGURE 117

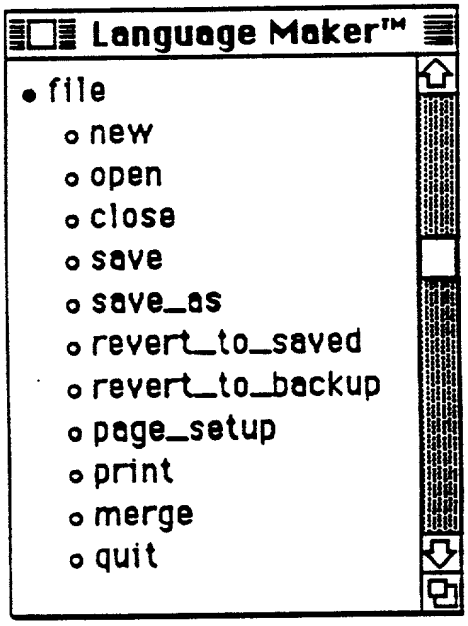

Language Maker™
• file
o new
o open
o close
o save
o save_as
o revert_to_saved
o revert_to_backup
o page_setup
o print
o merge
o quit

FIGURE 118

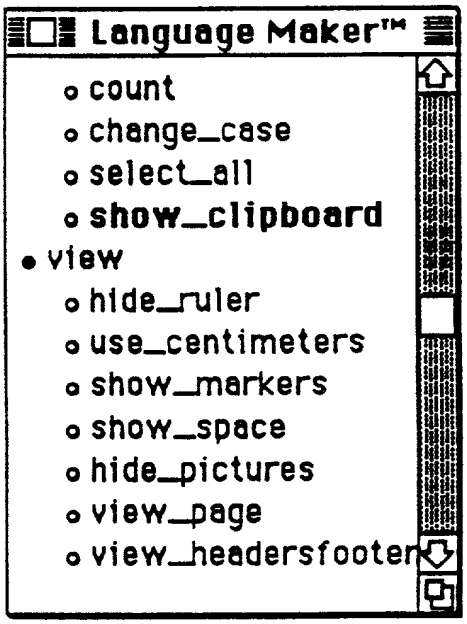


FIGURE 119

Document 5 - 0053

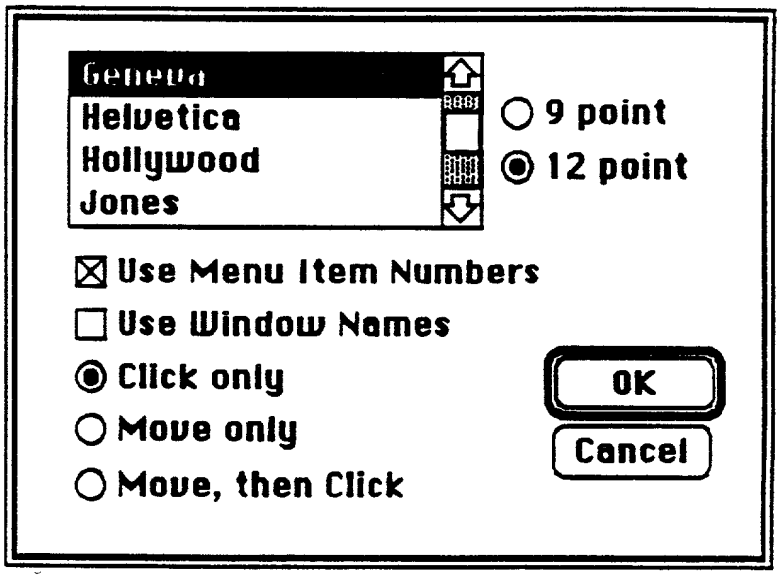

Geneva
Helvetica
Hollywood
Jones
9 point
12 point
Use Menu Item Numbers
Use Window Names
Click only
Move only
Move, then Click
OK
Cancel

FIGURE 120

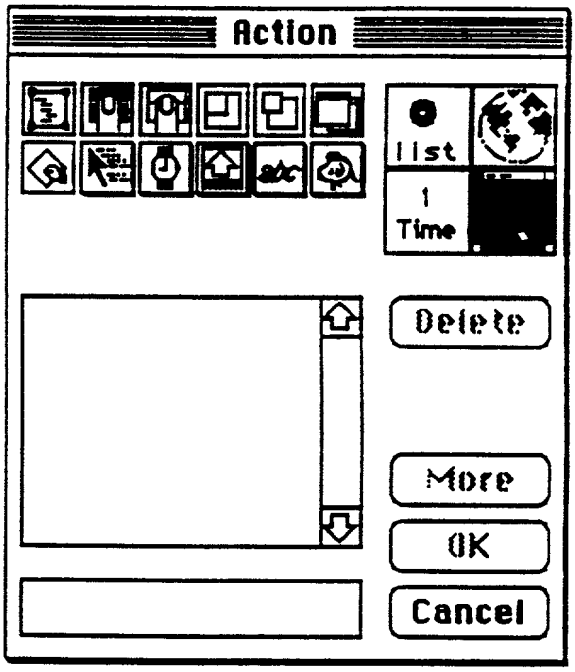


FIGURE 121

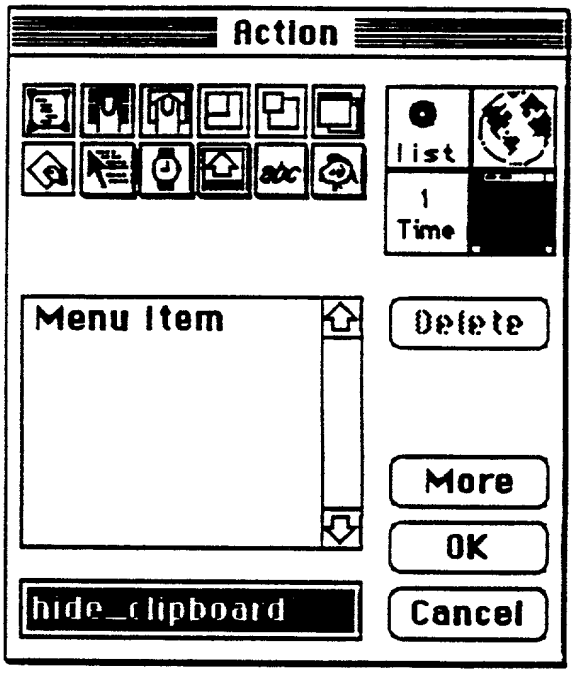

Action
list
1
Time
Menu Item
Delete
More
OK
Cancel
hide_clipboard

FIGURE 122

PROSOFT-05000-34

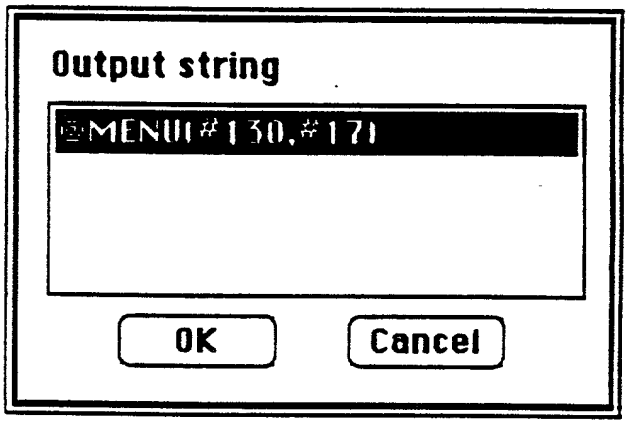


FIGURE 123

Apple Exhibit 1050 Page 1050

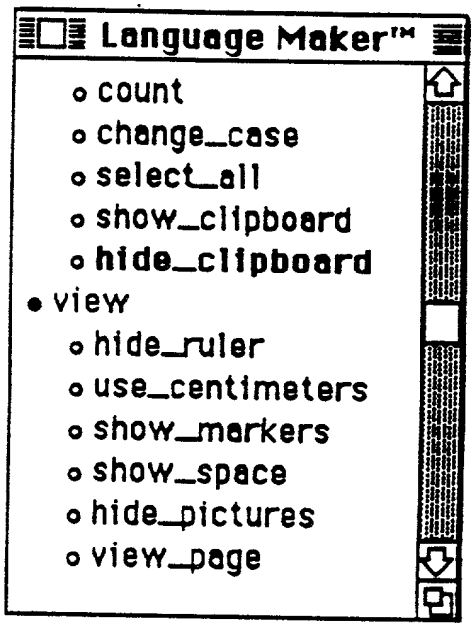


FIGURE 124

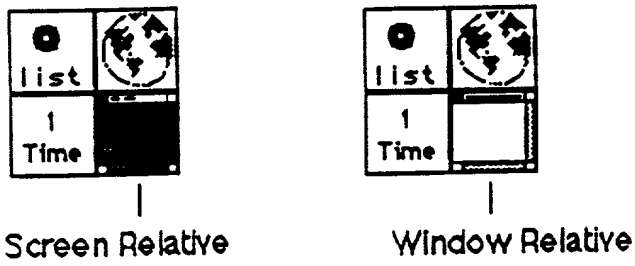


FIGURE 125

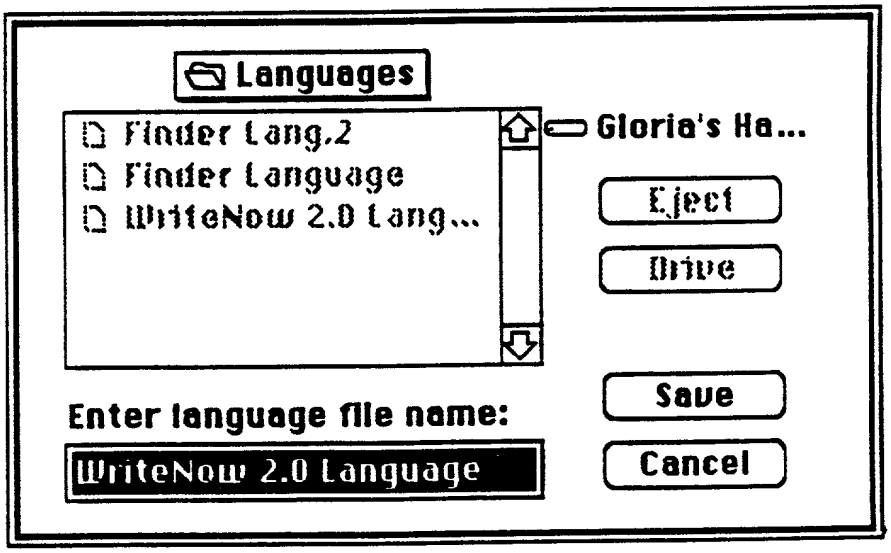


FIGURE 126

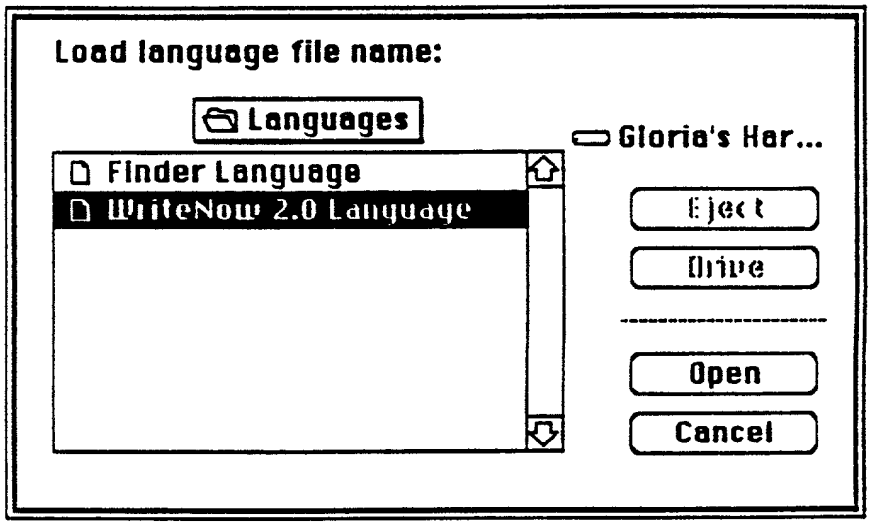

Load language file name:
Languages
Gloria's Har...
Finder Language
WriteNow 2.0 Language
Eject
Drive
Open
Cancel

FIGURE 127

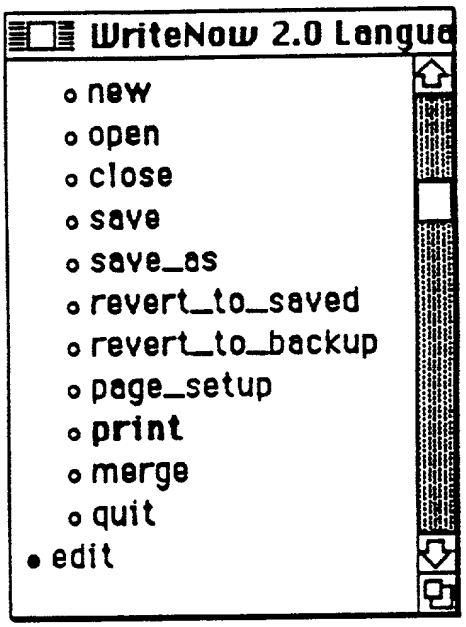

WriteNow 2.0 Langue
new
open
close
save
save_as
revert_to_saved
revert_to_backup
page_setup
print
merge
quit
edit

FIGURE 128

Apple Exhibit 1005
Page 1 of 1

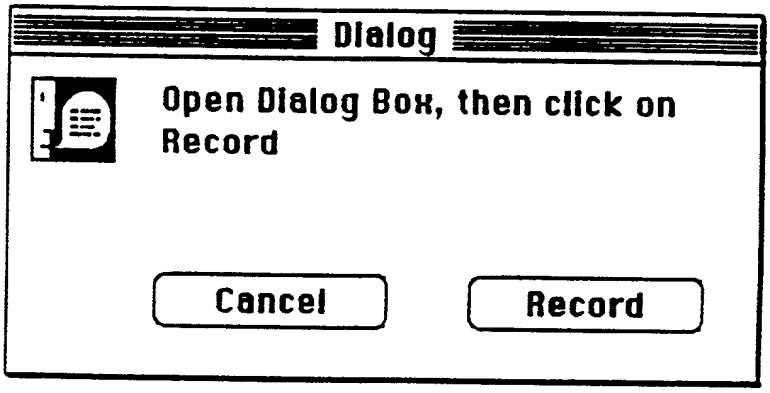


FIGURE 129

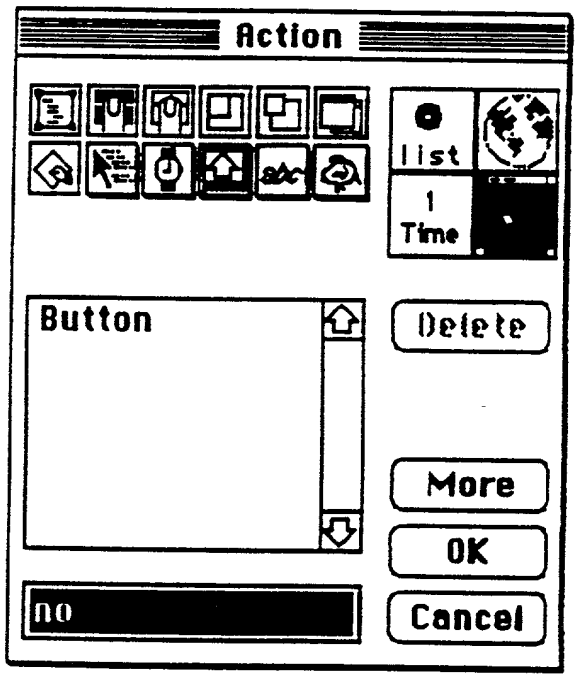


FIGURE 130

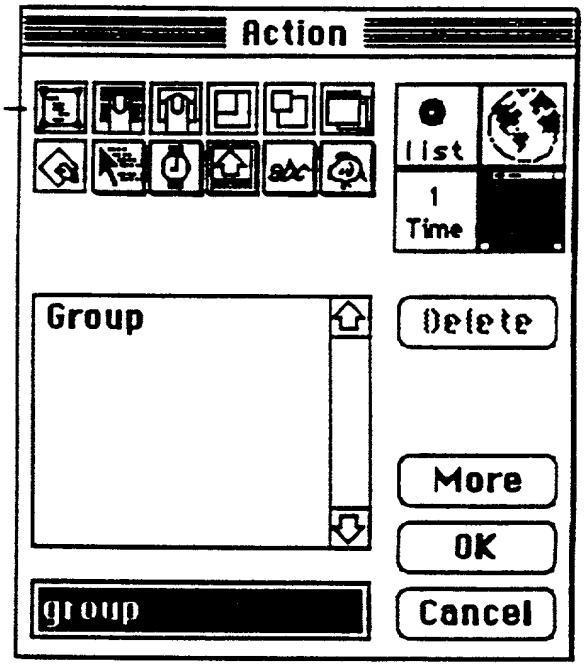

Group
Icon
Action
list
1
Time
Group
Delete
More
OK
group
Cancel

FIGURE 131

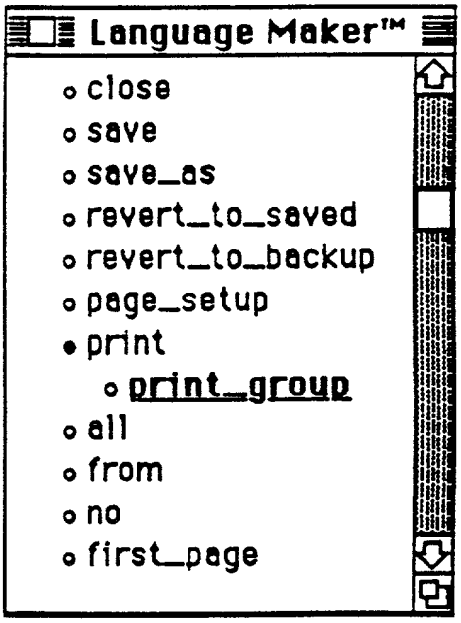

Language Maker™
close
save
save_as
revert_to_saved
revert_to_backup
page_setup
print
print_group
all
from
no
first_page

FIGURE 132

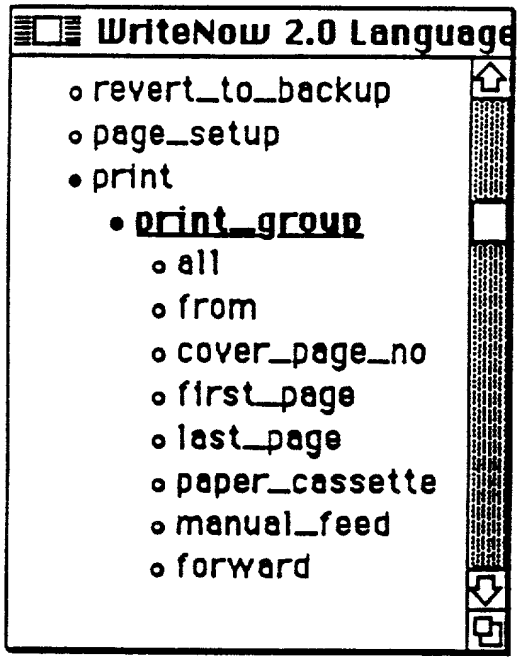

WriteNow 2.0 Language
revert_to_backup
page_setup
print
print_group
all
from
cover_page_no
first_page
last_page
paper_cassette
manual_feed
forward

FIGURE 133

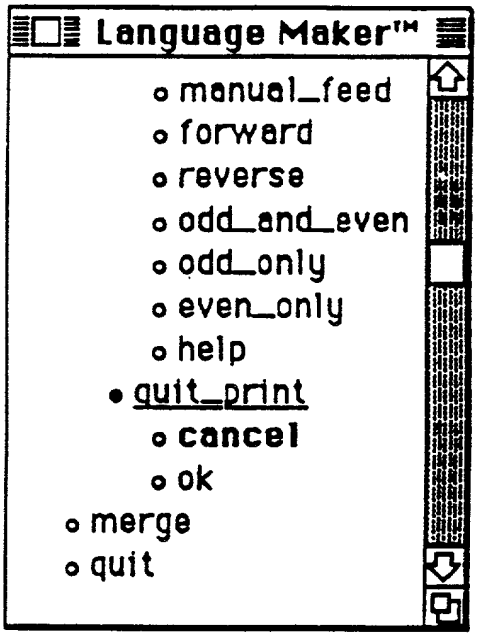

Language Maker™
manual_feed
forward
reverse
odd_and_even
odd_only
even_only
help
quit_print
cancel
ok
merge
quit

FIGURE 134

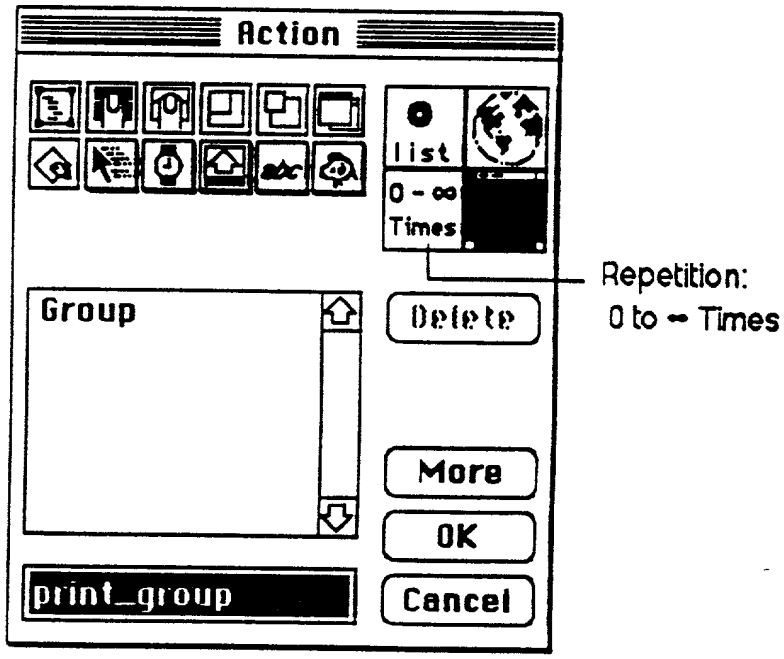

Action
list
0 - ∞
Times
Repetition:
0 to ∞ Times
Group
Delete
More
OK
Cancel
print_group

FIGURE 135

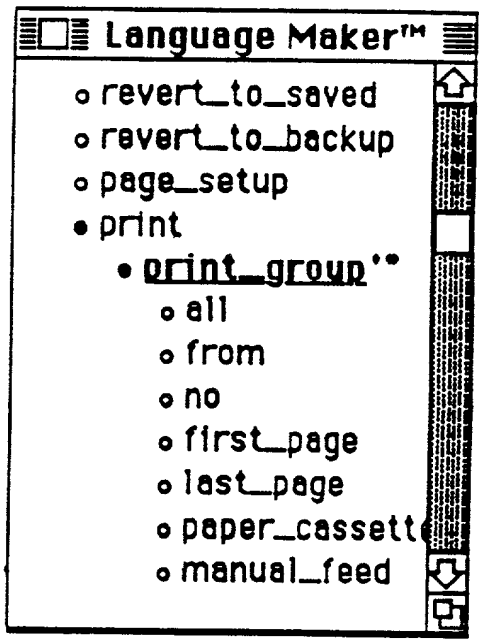

Language Maker™
revert_to_saved
revert_to_backup
page_setup
print
print_group**
all
from
no
first_page
last_page
paper_cassett
manual_feed

FIGURE 136

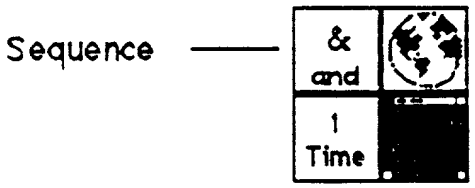


FIGURE 137

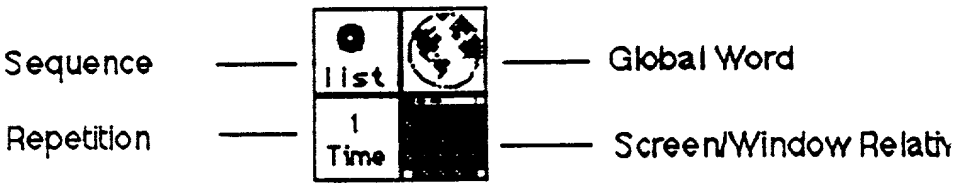


FIGURE 138

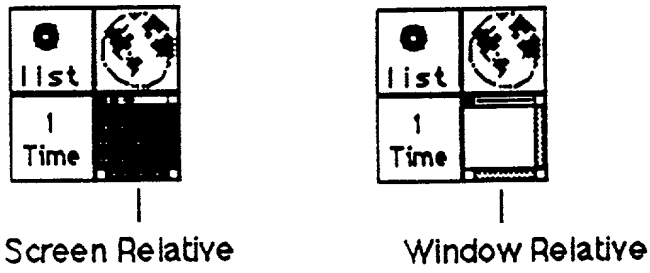


FIGURE 139

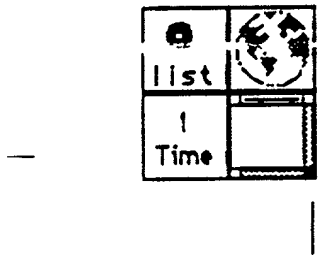


FIGURE 140

Document 3 - Copyright 1995 Microsoft

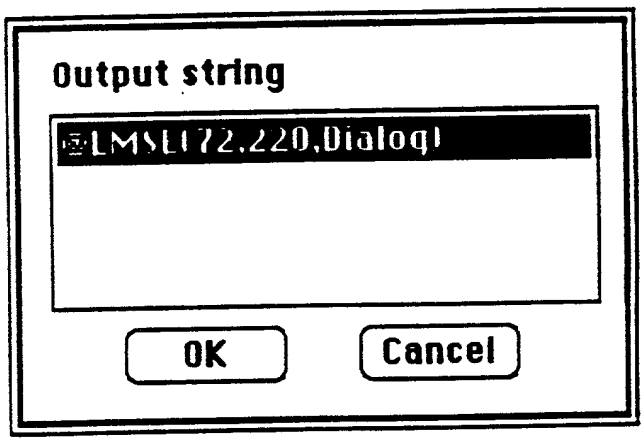


FIGURE 141

Patent - Stanford

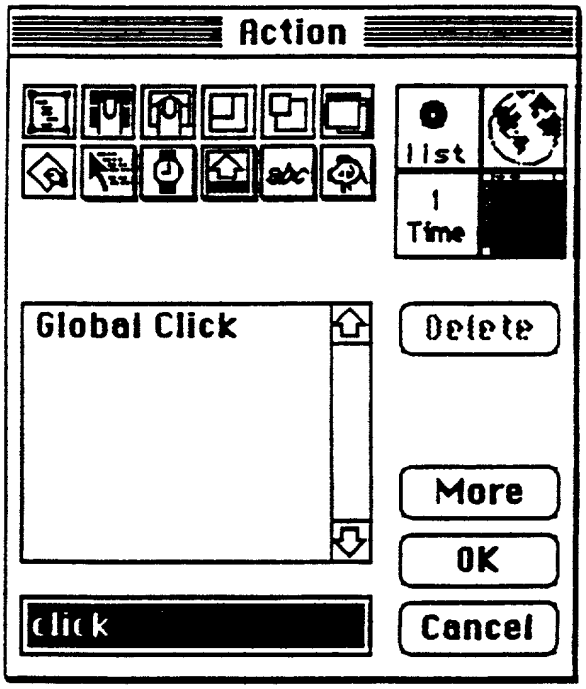


FIGURE 142

Document 5 - 0050 of 0054

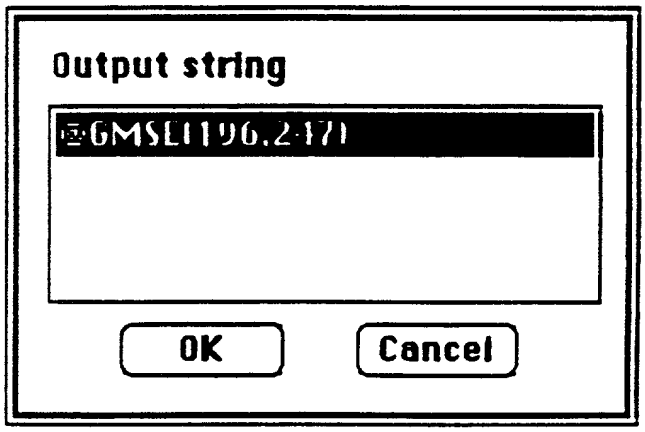


FIGURE 143

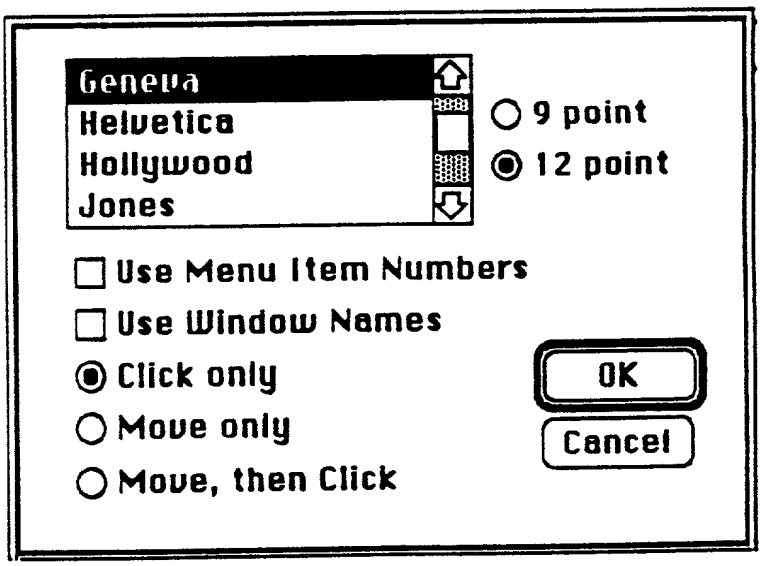

Geneva
Helvetica
Hollywood
Jones
9 point
12 point
Use Menu Item Numbers
Use Window Names
Click only
Move only
Move, then Click
OK
Cancel

FIGURE 144

Patent Application Publication Oct. 9, 2003 Sheet 145 of 150 US 2003/0189589 A1

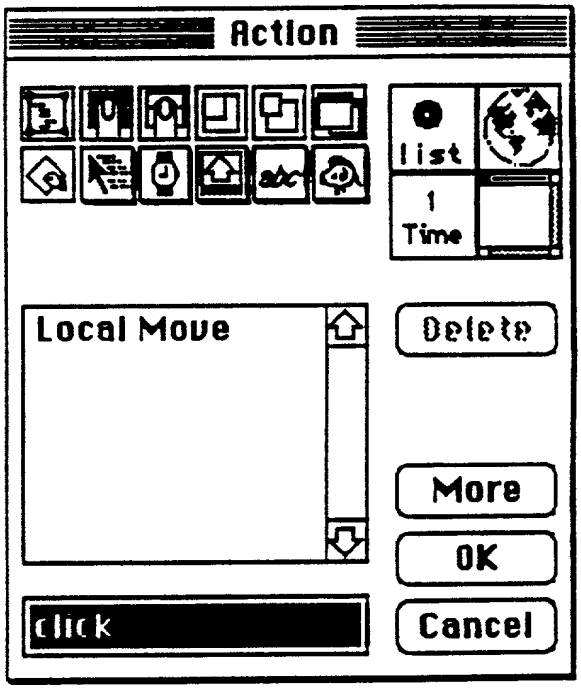


FIGURE 145

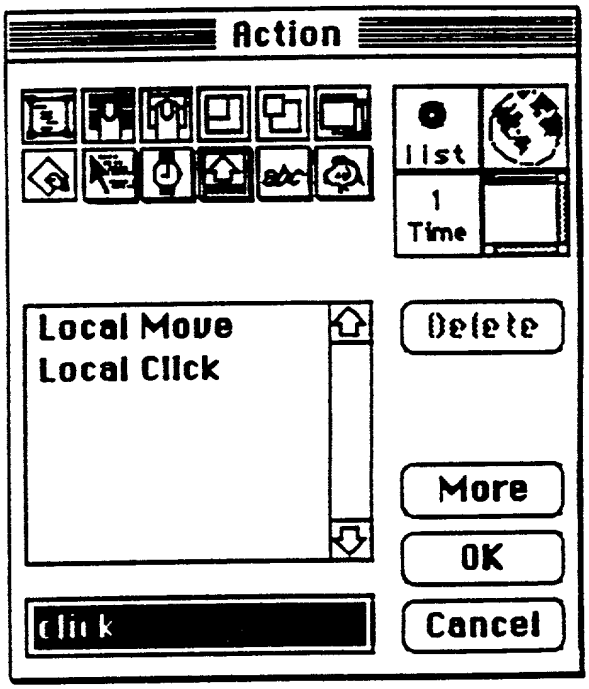

Action
list
1
Time
Local Move
Local Click
Delete
More
OK
Cancel
click

FIGURE 146

Document 5 - 0050

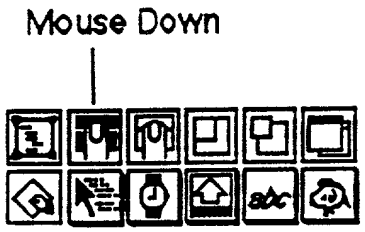


FIGURE 147

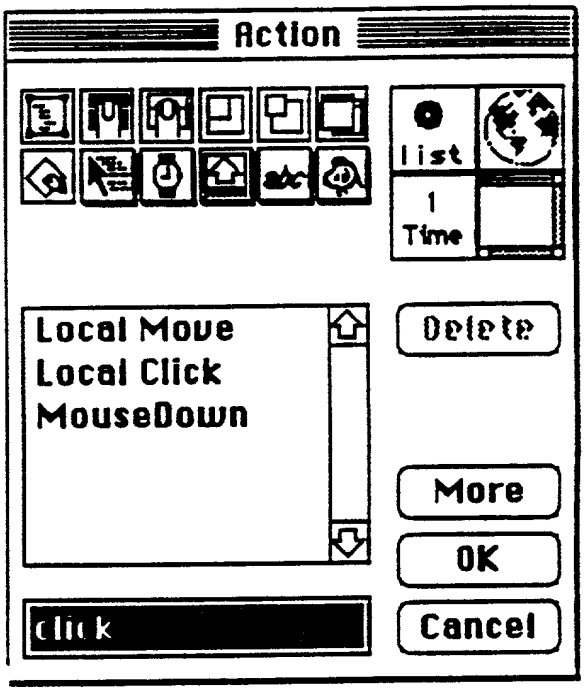

Action
list
1
Time
Local Move
Local Click
MouseDown
Delete
More
OK
Cancel
click

FIGURE 148

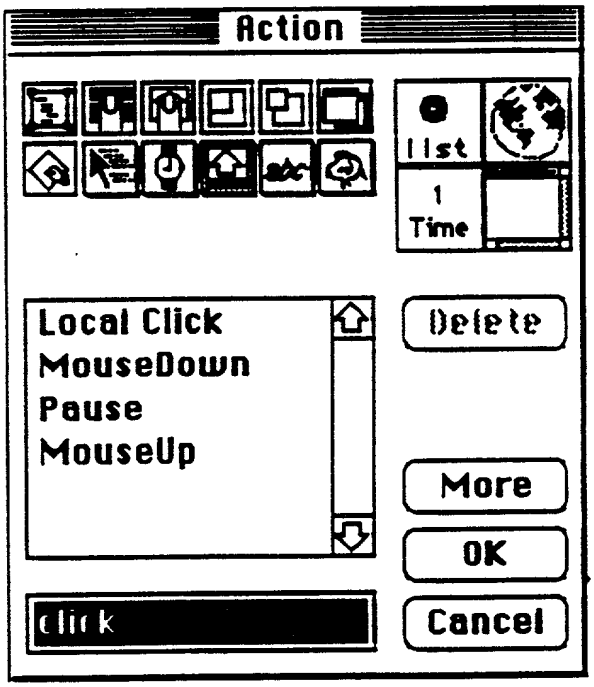
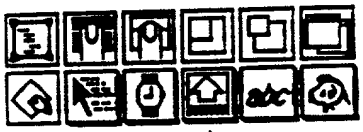

Action
list
1
Time
Local Click
MouseDown
Pause
MouseUp
Delete
More
OK
Cancel
Click

FIGURE 149



Scroll & Page

FIGURE 150

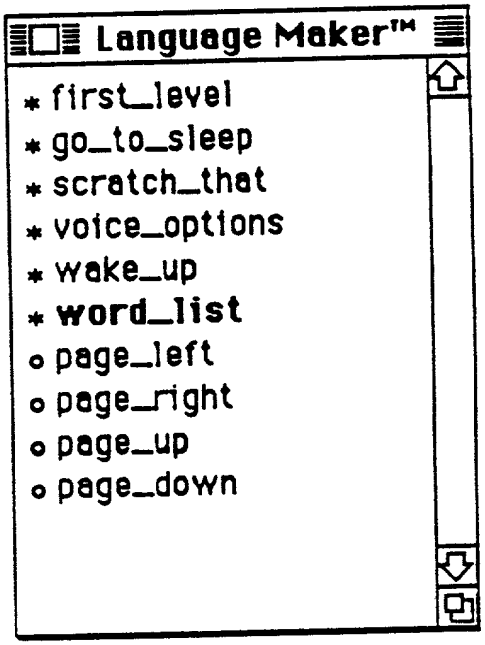


FIGURE 151

Page 1 of 5 - 05/03/2004

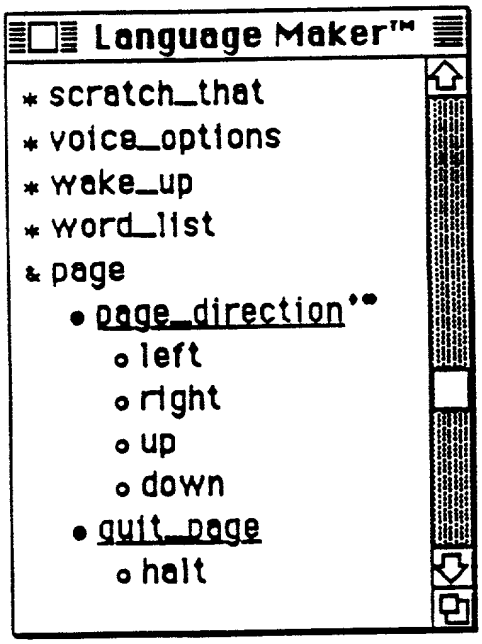


FIGURE 152

Patent Application Publication

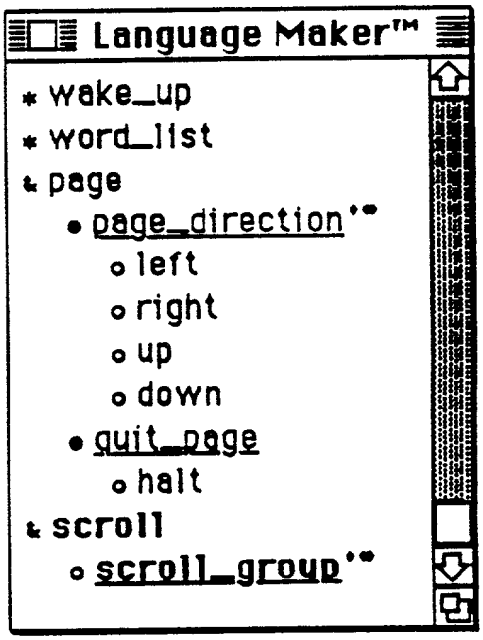


FIGURE 153

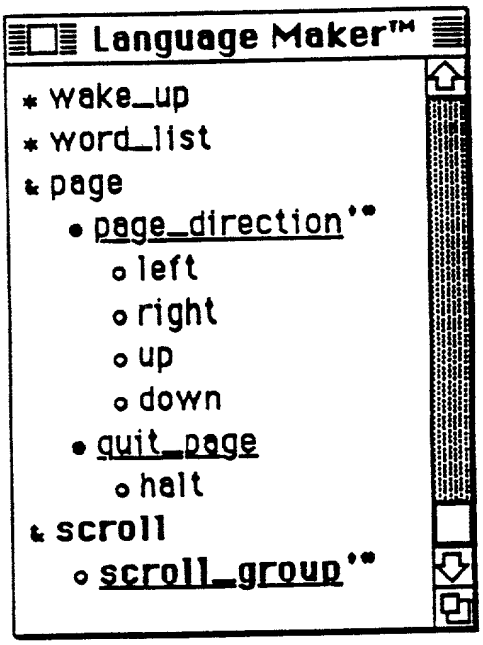

Language Maker™
* wake_up
* word_list
& page
• page_direction'*
o left
o right
o up
o down
• quit_page
o halt
& scroll
o scroll_group'*

FIGURE 154

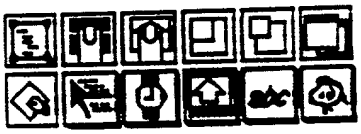


FIGURE 155

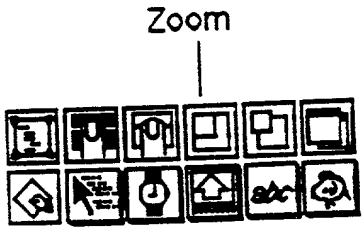


FIGURE 156

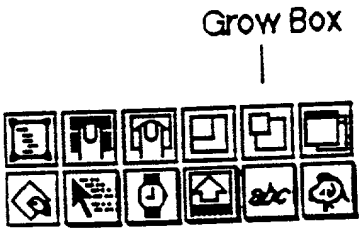


FIGURE 157

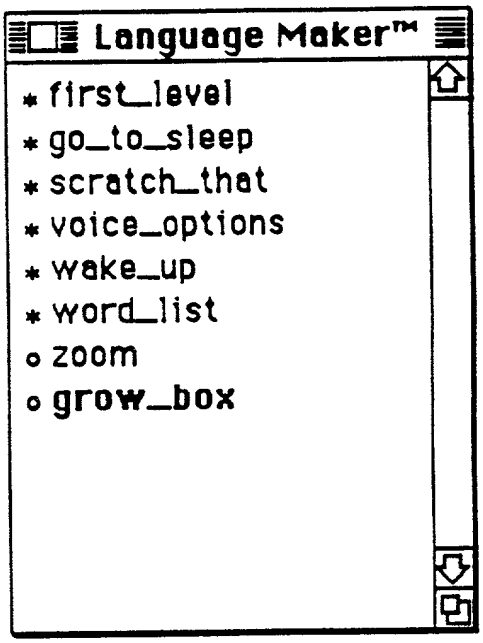
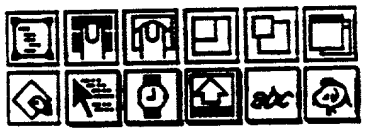

Language Maker™
* first_level
* go_to_sleep
* scratch_that
* voice_options
* wake_up
* word_list
o zoom
o grow_box

FIGURE 158

PGS0259 - 0259 of 0454



Launch

FIGURE 159

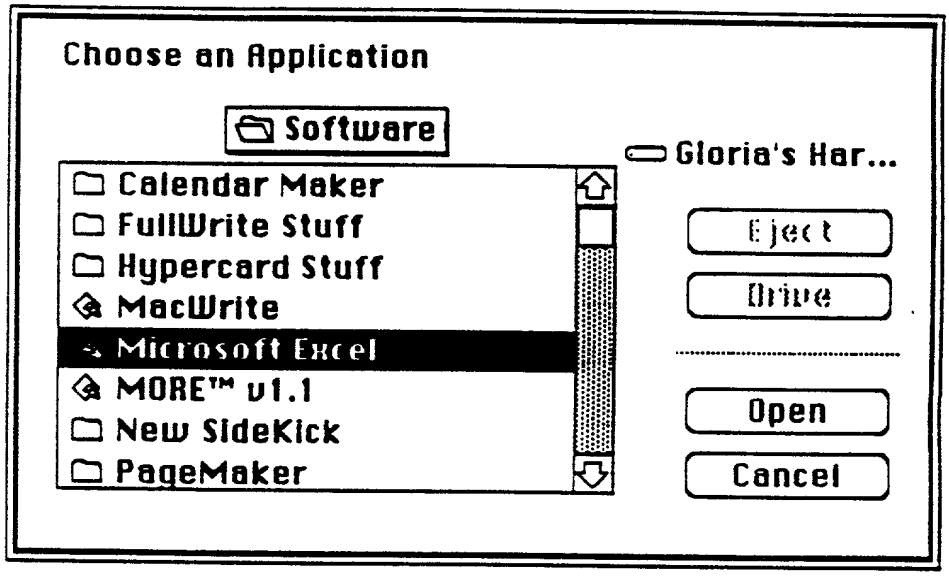

Choose an Application
Software
Gloria's Har...
Calendar Maker
FullWrite Stuff
Hypercard Stuff
MacWrite
Microsoft Excel
MORE™ v1.1
New SideKick
PageMaker
Eject
Drive
Open
Cancel

FIGURE 160

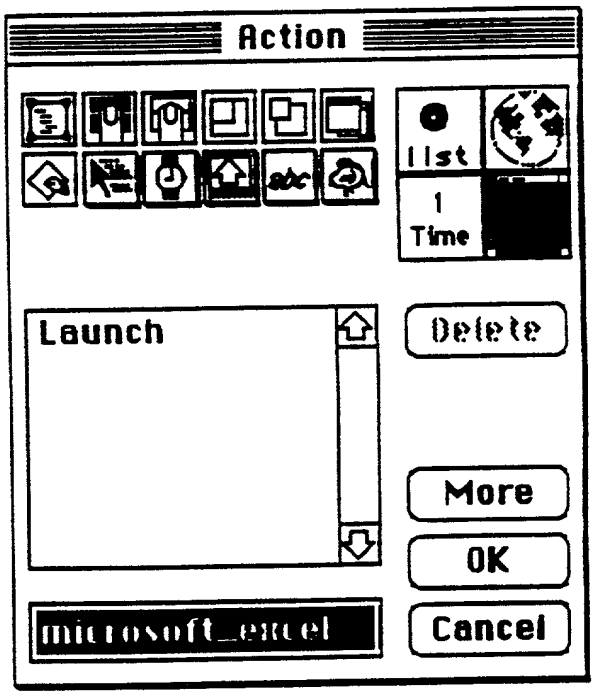

Action
list
1
Time
Launch
Delete
More
OK
Cancel
microsoft_excel

FIGURE 161

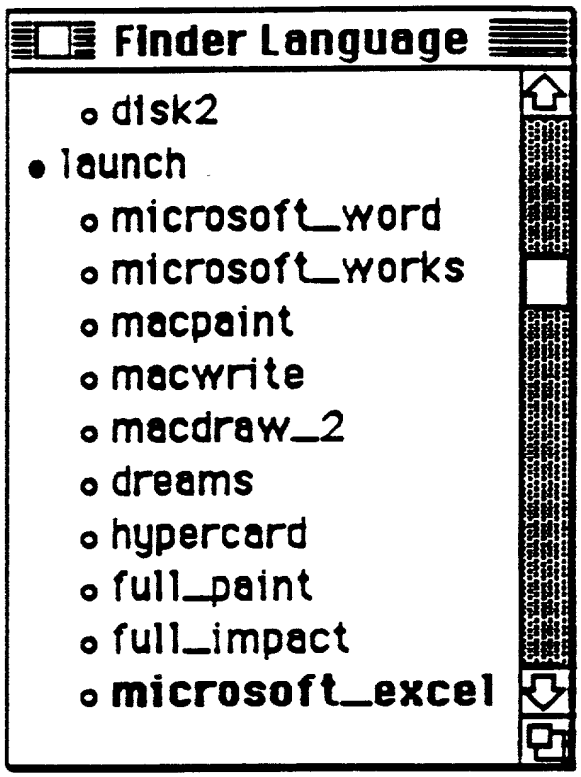
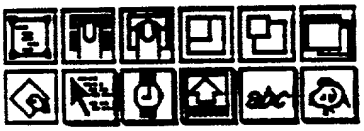

Finder Language
disk2
launch
microsoft_word
microsoft_works
macpaint
macwrite
macdraw_2
dreams
hypercard
full_paint
full_impact
microsoft_excel

FIGURE 162

Pat-No: D350128



Navigator

FIGURE 163

Icon for Global Word

FIGURE 164

ART WORK CATEGORIES

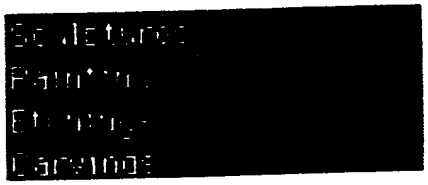


FIGURE 165

T06050" 6+025960

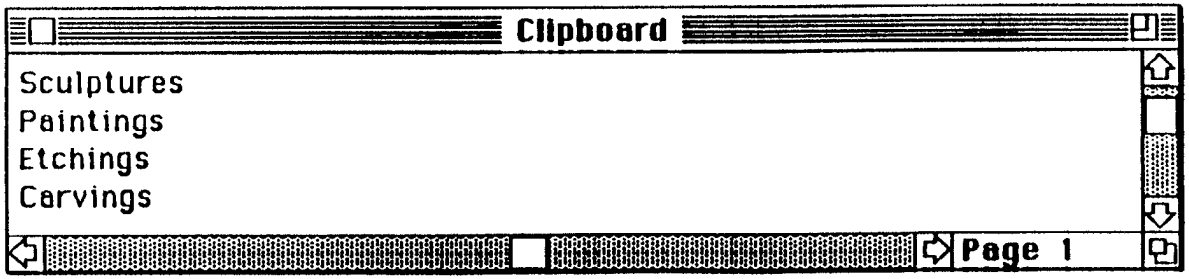


FIGURE 166

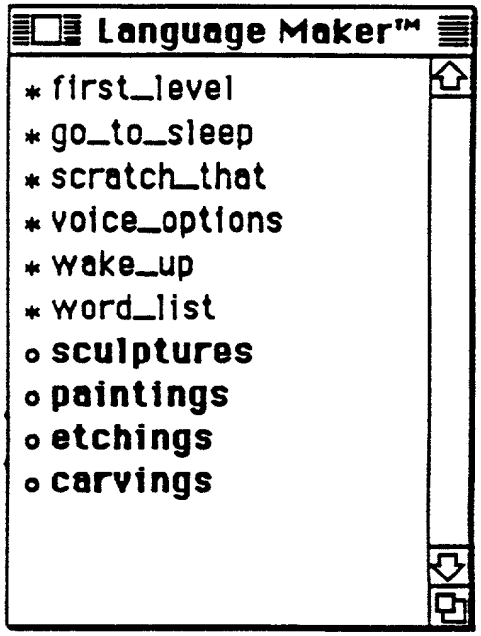

Language Maker™
* first_level
* go_to_sleep
* scratch_that
* voice_options
* wake_up
* word_list
o sculptures
o paintings
o etchings
o carvings

FIGURE 167

D5B5N0F5 - 050303P

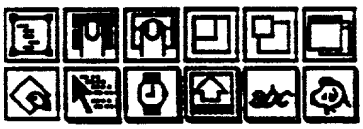


FIGURE 168

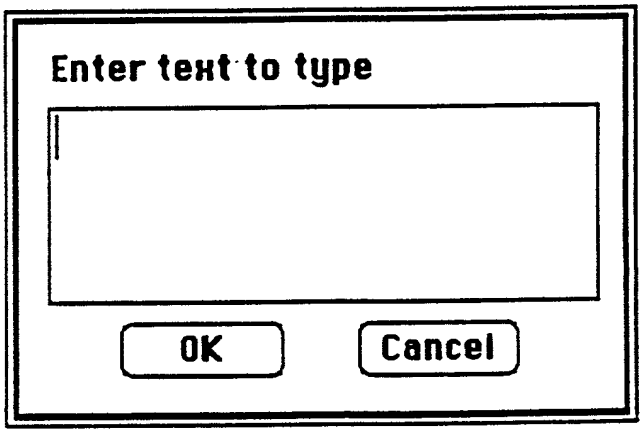


FIGURE 169

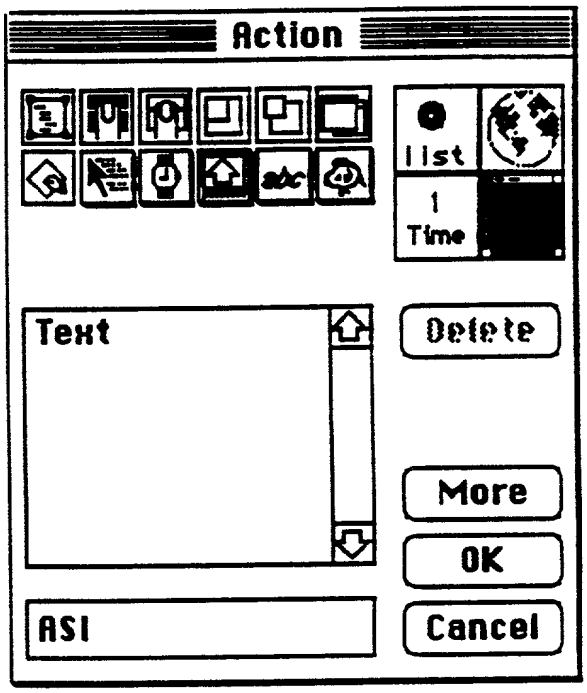


FIGURE 170

Proposed - 6/15/95

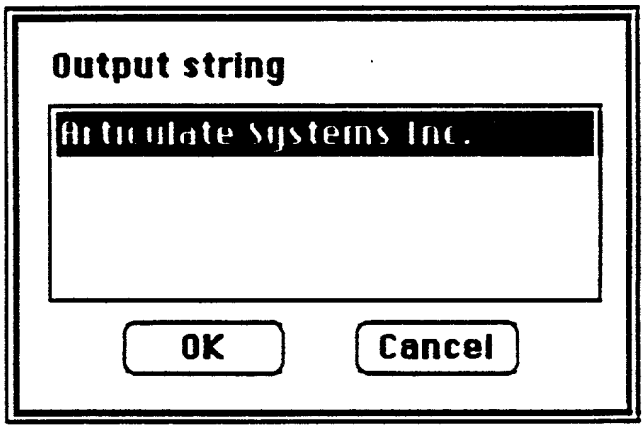


FIGURE 171

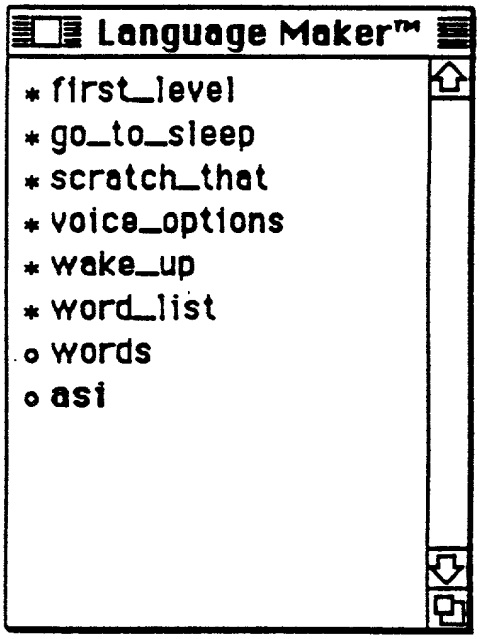

Language Maker™
* first_level
* go_to_sleep
* scratch_that
* voice_options
* wake_up
* word_list
o words
o asi

FIGURE 172

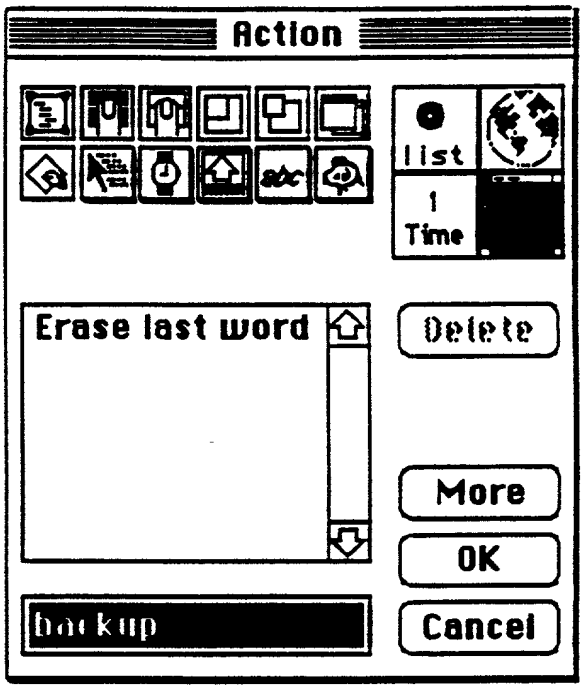

Action
list
1
Time
Erase last word
Delete
More
OK
Cancel
backup

FIGURE 173